

RECEIVED

JAN 19 1993

Tau Beta Pi

Ernest L. Mason  
R 5, Box 74  
Mountain Home, AR 72653

January 15, 1993

Tau Beta Pi

Dear Sirs,

I am a 1978 EE graduate from Kansas State University. I enjoyed my experience at KSU. In college I began to grow spiritually, as I studied the Bible. I am now preparing to go as a missionary to Argentina.

There is one aspect of Tau Beta Pi that has bothered me. I am not comfortable with the secret and quasi-religious nature of the induction ceremony. I wish I had not participated in it. My total allegiance is to the true God, having accepted the salvation offered through the death and resurrection of Jesus Christ. This is not a secret society, but is freely offered to all who will believe.

Please remove my name from all membership lists of Tau Beta Pi. I am not an active member, but I recall there being some kind of a permanent membership as a result of being inducted.

Thank you for your help.

Sincerely,

*Ernest L. Mason*



March 4, 1992

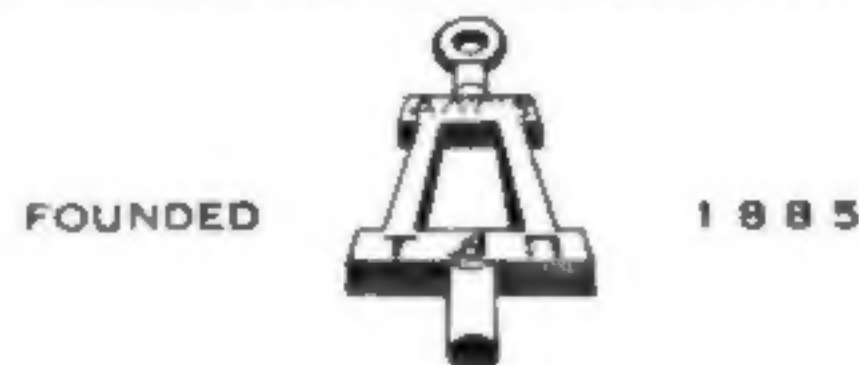
Mr. Ernest L. Mason  
959 Banbury Road  
Mundelein, IL 60060-1120

Dear Mr. Mason:



KS G

THE TAU BETA PI ASSOCIATION  
INCORPORATED  
NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES



P.O. BOX 8840, UNIVERSITY STATION  
KNOXVILLE, TENNESSEE 37996  
TELEPHONE: 615/546-4578

JAMES D. FROULA  
SECRETARY-TREASURER

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

January 19, 1993

Mr. Ernest L. Mason  
R 5, Box 74  
Mountain Home, AR 72653

KS G '78

Dear Mr. Mason:

Thank you for your letter of resignation of January 15, 1993. To completely resign, you must return your membership certificate. When I receive that, we will remove your name from our membership records.

I am sorry that you are not comfortable with the private nature of Tau Beta Pi's initiation ceremony. Of course, there is nothing in the ceremony requiring privacy; yet, the conservative nature of engineers has thwarted many attempts to make the ceremony public. There is no quasi-religious nature to the ceremony. I am sorry that you feel that way and believe it necessary to resign from our Association. We need good people like yourself to represent the Society in a positive way and to pray for both our members and our nation.

I commend you for your missionary work and wish you the best.

Sincerely

James D. Froula, P.E.

JDF/tv



RECEIVED  
APR 28 1993  
Tau Beta Pi


Memorandum

To: Tau Beta Pi Headquarters  
From: Kansas Gamma Chapter  
Subject: Initiation on Joel D. Krosschell  
Date: 26 April 1993

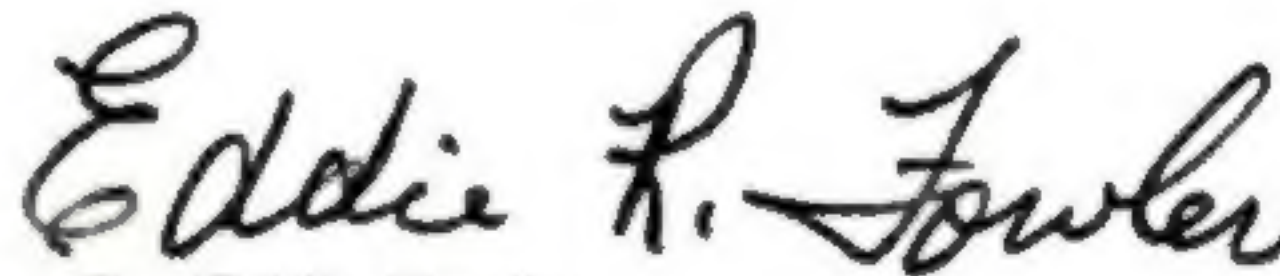
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The initiation of Joel D. Krosschell into the Kansas Gamma chapter of Tau Beta Pi was satisfactorily completed on 19 April 1993. Recently, we asked to have Joel's pledge records reactivated, but our late request didn't allow sufficient time for us to receive his certificate. It was understood that his certificate would be prepared after his initiation into Tau Beta Pi.

Sincerely,



Kathy Gooch  
President  
Kansas Gamma chapter



Dr. Eddie Fowler  
Chief Advisor  
Kansas Gamma chapter

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APR 28 1993

Tau Beta Pi

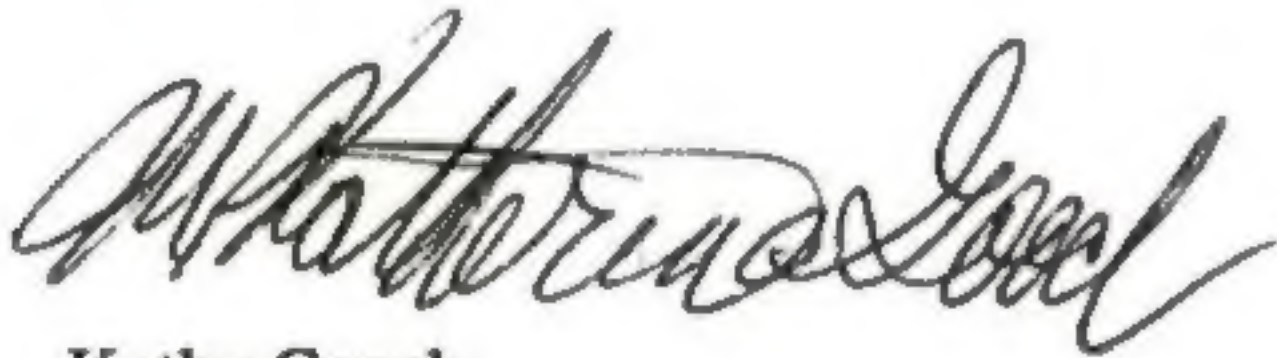
Memorandum

To: Tau Beta Pi Headquarters  
From: Kansas Gamma chapter  
Subject: Initiation on Amy J. Rathgeber  
Date: 26 April 1993

---

The initiation into the Kansas Gamma chapter of Tau Beta Pi of Amy J. Rathgeber will be postponed until Fall 1993. Amy's absence was excused because of illness. This is Amy's second absence. We hope her initiation will be completed in the Fall.

Sincerely,



Kathy Gooch  
President  
Kansas Gamma chapter



Dr. Eddie Fowler  
Chief Advisor  
Kansas Gamma chapter



RECEIVED

APR 28 1993

Tau Beta Pi

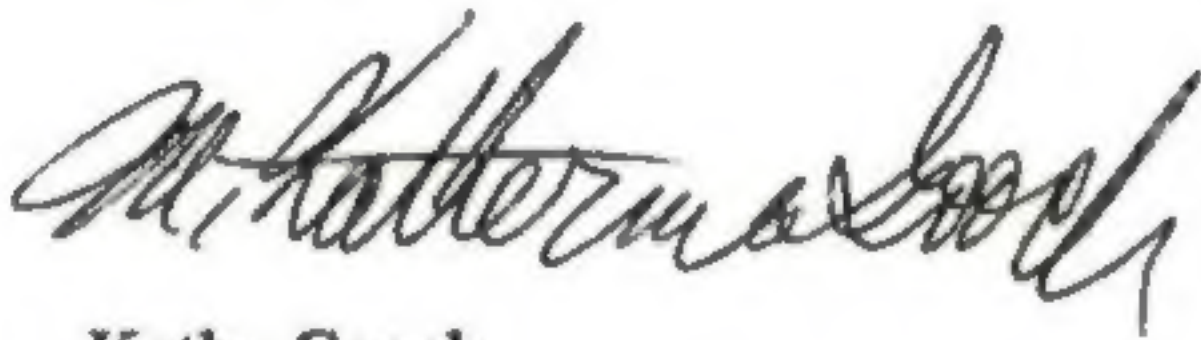
Memorandum

To: Tau Beta Pi Headquarters  
From: Kansas Gamma chapter  
Subject: Initiation on Jason W. Simecka  
Date: 26 April 1993

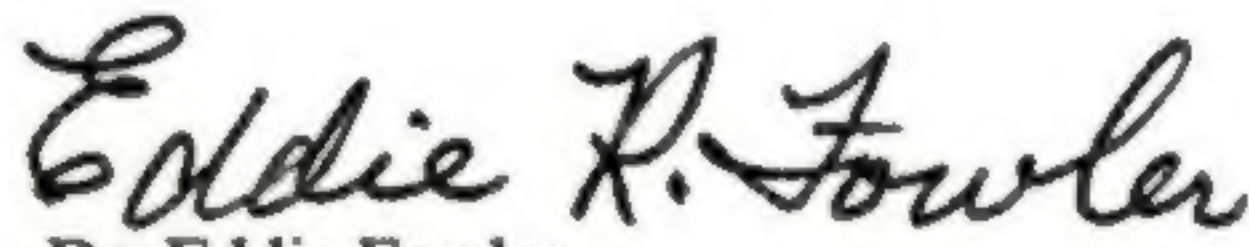
---

The initiation into the Kansas Gamma chapter of Tau Beta Pi of Jason W. Simecka will be postponed until Fall 1993. Jason's absence was excused because of an interview in Nebraska.

Sincerely,



Kathy Gooch  
President  
Kansas Gamma chapter



Dr. Eddie Fowler  
Chief Advisor  
Kansas Gamma chapter





College of Arts and Sciences

Office of the Dean  
Eisenhower Hall  
Manhattan, Kansas 66506-1005  
913-532-6900

RECEIVED

MAY 17 1993

Tau Beta Pi

May 12, 1993

Tau Beta Pi Association  
P.O. Box 8840  
University Station  
Knoxville, TN 37996-4800

To whom it may concern:

We are currently in the process of updating the scholarship files at Kansas State University, and have little information on the Tau Beta Pi Awards. Would you please send the application form as well as additional information on the application process? If possible, we would especially appreciate information concerning eligibility, requirements, deadlines, the number of applicants accepted, and the number of awards given.

Thank you for your time. I look forward to sharing information on your prestigious program with the students at Kansas State University.

Sincerely,

*Jocelyn S. Viterna*  
Jocelyn S. Viterna

*mld application +  
press  
release  
5/17/93*



KS G

6/7/93

Dr. Fowler  
if we rec'd

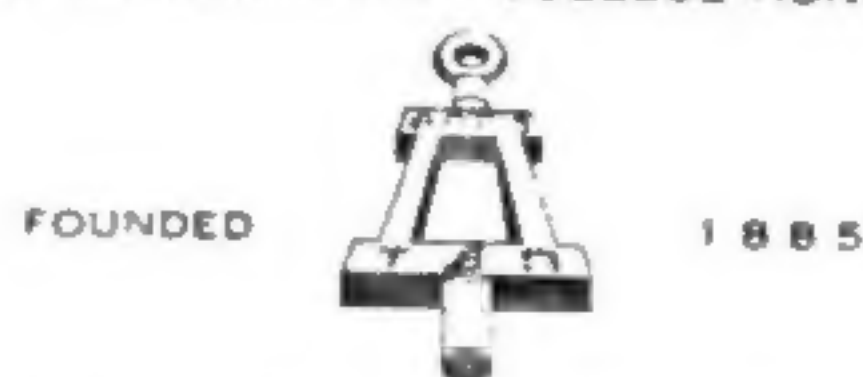
Convention Bud for '96  
Rec'd

---

his letter dated May 13  
not mailed  
He'll mail  
today



THE TAU BETA PI ASSOCIATION  
INCORPORATED  
NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES



P.O. BOX 8840, UNIVERSITY STATION  
KNOXVILLE, TENNESSEE 37996  
TELEPHONE: 615/546-4578

## OFFICIAL INITIATION APPROVAL

To the President of the Kansas Gamma Chapter: Date November 2, 1993

\*\* Your Report(s) of Election and Catalog Card(s) for eligible students have been received and your election of 42 undergraduate(s) is hereby approved, under Constitution Article VIII, Section 2.

     Your Report(s) of Election and Catalog Card(s) for graduate-student, alumnus, and eminent engineer candidate(s) have been received and their election is hereby approved under Constitution Article VIII, as follows:

\_\_\_\_\_ Sec. 3

\_\_\_\_\_ Sec. 3

\_\_\_\_\_ Sec. 4

\_\_\_\_\_ Sec. 5

\_\_\_\_\_ Sec. 6

\*\* These 42 electee(s) are approved for initiation on November 29, 1993.

*(NOTE: You may initiate postponed electees if and only if they are eligible for membership at the time of their initiation unless your Advisory Board approved and documented the postponements.)*

     We need Catalog Card(s) for the following electee(s): \_\_\_\_\_

Please see attached copy of Report -- Everyone on your Report should have a mark in each column, please adjust your Report of Final Action accordingly, thank you.

\_\_\_\_\_ Lanita

42 Keys have been ordered for delivery as soon as possible. (They usually require 3-4 weeks for delivery.)

42 Certificates have been ordered for delivery as soon as possible.

Approved by \_\_\_\_\_



James D. Froula, Secretary-Treasurer

PLEASE BE SURE TO ACCOUNT FOR ALL ELECTEES, INCLUDING ALUMNI AND ANY FROM YOUR POSTPONED INITIATIONS LIST, ON YOUR REPORT OF FINAL ACTION! THE REPORT OF FINAL ACTION SHOULD BE SENT AS SOON AS POSSIBLE AFTER YOUR INITIATION, WITH A PHOTOCOPY OF YOUR ROLL BOOK SIGNATURES.



Date: Wed, 08 Dec 93 15:46:09 LCL  
From: PA82498@UTKVM1  
To: "Paul Kippes, KS G Cor Sec" <pkippes@matt.ksu.edu>

Paul,

Attached is the document we discussed by phone this afternoon. If you have any questions concerning it, let me know.

You will probably be able to use it best if you print it out.

Thanks,  
Sarah MacKenzie  
TBP National  
pa82498@utkvm1.utk.edu

**RECEIVED**  
**DEC 9 1993**  
**Tau Beta Pi**

JULY 31, 1992

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**SPECIFICATIONS FOR ELECTRONIC REPORTING  
OF ELIGIBILITY, ELECTION, AND FINAL ACTION REPORTS**

The Headquarters computer system for processing Chapter Reports currently uses FOXPRO2. Reports may be submitted via e-mail, diskette, or printout.

**E-MAIL:**

Two ASCII (text) format files must be created, REPORTS and STUDENTS. The fields for each file must be in the order listed below. Please use commas to delimit fields and do not use leading or trailing blanks in the fields. Unused fields will be indicated by consecutive commas.

Also, please add a few lines at the top of the e-mail file to identify it. Include (1) the name of the person sending the report,

(2) the chapter,

(3) and the type of report (Eligibility, Election, or Final

----- Middle removed to conserve space -----

Tau Beta Pi National Office

Mail: PO BOX 8840, Univ. Sta.

Packages: 508 Dougherty Hall, 1512 Middle Dr, UT Campus

Knoxville, TN 37996-0002

615/546-4578



THE TAU BETA PI ASSOCIATION  
POSTPONED & FINANCIAL REFUSAL ELECTEES

RECEIVED

DEC 10 1993

Chapter Kansas Gamma

Date Fall 1993

**Tau Beta Pi**

The persons listed below were elected by your chapter during past initiation seasons as noted. They have refused membership for financial reasons (Constitution Article VIII, Section 10) or have simply missed attending a formal initiation. Unless their election is to be cancelled, at the option of your chapter, the following three options apply:

- A) Persons whose names appear on this list and who remain eligible for membership may be initiated at the next regular initiation without re-election. Such electees who graduate may be initiated without re-election within five years from the date of election.
- B) Persons listed who become academically ineligible and whose postponements have been *approved and documented* by the Advisory Board may be initiated at the next regular initiation.
- C) Persons listed who become ineligible and whose postponements have *not* been approved by the Advisory Board must become eligible again and be re-elected during a subsequent term in order to be initiated.

If it is inconvenient for them to return to your chapter for initiation, arrangements can be made through the National Headquarters for their initiation by chapters near their homes.

Please indicate the action to be taken on each electee listed; i.e., To be initiated on 29 Nov 93 (date); Election cancelled by the chapter; Continue financial refusal or postponed status; etc.

RETURN THIS SHEET WITH YOUR REPORT OF FINAL ACTION

| Name & Class         | Status / Date Elected | Advisory<br>Board Approval | Re: Key     | Action by Chapter               |
|----------------------|-----------------------|----------------------------|-------------|---------------------------------|
| A. J. Rathgeber, '94 | Post - Spring 1993    | Approved                   | Chapter has | Initiated                       |
| J. W. Simecka, '93   | "                     | "                          | "           | Graduated, unable<br>to contact |
|                      |                       |                            |             |                                 |
|                      |                       |                            |             |                                 |



THE TAU BETA PI ASSOCIATION  
INCORPORATED  
NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES



PO BOX 8840, UNIVERSITY STATION  
KNOXVILLE TENNESSEE 37996  
TELEPHONE 615/546-4578

JAMES D. FROULA  
SECRETARY-TREASURER

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

REPORT OF FINAL ACTION ACKNOWLEDGMENT

Date December 10, 1993

To the President of the Kansas Gamma Chapter:

The Report of Final Action and photocopy of the Roll Book signatures for your November 29, 1993 initiation have been received. Thank you!

According to your report, your chapter initiated the following:

38 C-VIII, Sec. 2 Undergraduate Student(s)

       C-VIII, Sec. 3 Graduate Student(s)

       C-VIII, Sec. 4 Alumnus(i)

       C-VIII, Sec. 5 Alumnus(i)

       C-VIII, Sec. 6 Eminent Engineer(s)

38 TOTAL NUMBER OF NEW MEMBERS

If your chapter records do not agree with these figures, please notify me at once. Your chapter account is being charged with national initiation fees and Convention assessments for this total number of new members. The fees and assessments are due within ten days after initiation.

Catalog Cards or other materials needed from you to complete our records are noted below and must be sent immediately. If nothing is noted, then our record of the initiation is complete, thank you.

A new certificate has been ordered for Amy Rathgeber. According to our records you have her key.

A copy of your roll book signatures is attached. Please confirm the highlighted signatures. Thanks, Rebecca

Sincerely yours,

  
James D. Froula

*Confirmed  
for Matt  
1/25/94*



KSG

2/21/94

Mark Mazur

Rejected B -

Scott Florman Cataloger

called to find out  
Where Exemplary  
Character was in

Const. + Bylaws



## 1005



Approved by James D. Froula, P.E.  
James D. Froula, Secretary-Treasurer



3/2/94

RS Gamma - Paul

I have reviewed facts in the Mazow case and are going to consider him for membership. What is required? I told him that Mazow must be elected by a  $7/8$ <sup>th</sup> favorable vote by the entire chapter.



Was Rejected B

~~told him he  
would have to  
be elected by  
8th vote of  
members.~~

INCORRECT  
INTERPRETATION

NOT  
TRUE  
of  
See BVI,  
6.03.(d)  
3/4 vote

we interpret the  
C+B

3/8/94

KS G Cat. Scott

1 student was rejected 1.5 yrs ago., re-camp/tent/accusation  
- acquitted in civil court

Maybe considered if acal. elig.

Vote = 3/4 BVI 6.03.(d)

of



**THE TAU BETA PI ASSOCIATION  
POSTPONED & FINANCIAL REFUSAL ELECTEES**

**RECEIVED**  
APR 8 1994  
TAU BETA PI

Chapter Kansas Gamma

Date Spring 1993

The persons listed below were elected by your chapter during past initiation seasons as noted. They have refused membership for financial reasons (Constitution Article VIII, Section 10) or have simply missed attending a formal initiation. Unless their election is to be cancelled, at the option of your chapter, the following three options apply:

- A) Persons whose names appear on this list and who remain eligible for membership may be initiated at the next regular initiation without re-election. Such electees who graduate may be initiated without re-election within five years from the date of election.
- B) Persons listed who become academically ineligible *and* whose postponements have been *approved and documented* by the Advisory Board may be initiated at the next regular initiation.
- C) Persons listed who become ineligible and whose postponements have *not* been approved by the Advisory Board must become eligible again and be re-elected during a subsequent term in order to be initiated.

If it is inconvenient for them to return to your chapter for initiation, arrangements can be made through the National Headquarters for their initiation by chapters near their homes.

Please indicate the action to be taken on each electee listed; i.e., **To be initiated on** 4/18/94 (date); Election cancelled by the chapter; Continue financial refusal or postponed status; etc.

**RETURN THIS SHEET WITH YOUR REPORT OF ELECTION**

|     | Name & Class            | Status / Date Elected | Advisory<br>Board Approval | Re: Key<br>Chapter has | Action by Chapter                             |
|-----|-------------------------|-----------------------|----------------------------|------------------------|---|
| SSU | Todd F. Lakin, '96      | Post - Fall 1993      |                            |                        | postponed 'til Fall '94<br>cancelled          |
| SNU | Kevin L. Larsen, '95    | "                     |                            | "                      | <del>refused</del> - no interest              |
| SNU | Brandy C. Peterson, '95 | "                     |                            | "                      | cancelled<br><del>refused</del> - no interest |
| SC  | Hoa Nguyen, '94         | Finan Ref - Fall 1993 |                            | "                      | cancelled<br><del>refused</del> - no interest |
|     |                         |                       |                            |                        |   |
|     |                         |                       |                            |                        |   |
|     |                         |                       |                            |                        |   |
|     |                         |                       |                            |                        |   |



4/12/94

Paul Kippes

RS Gamm

1) Have cc for Marc.  
Erikson. Her marked  
Ref. A on rept. What  
is she? Elected + Accepted

2) Amy Yelkin - elected  
marked on rept. (Acc)  
or ref not marked. Have  
cc. What is she?

Paul will fix FX



THE TAU BETA PI ASSOCIATION  
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MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES



P.O. BOX 8840 UNIVERSITY STATION  
KNOXVILLE TENNESSEE 37996  
TELEPHONE 615/546 4578

Don't forget to send copy  
of Roll Book signatures  
with Report of Final Action.

OFFICIAL APPROVAL TO HOLD YOUR INITIATION

To the President of the Kansas Gamma Chapter: Date April 12, 1994

\*\* Your Report(s) of Election and Catalog Card(s) for eligible students have been received and your election of 22 undergraduate(s) is hereby approved, under Constitution Article VIII, Section 2.

\_\_\_\_ Your Report(s) of Election and Catalog Card(s) for graduate-student, alumnus, and eminent engineer candidate(s) have been received and their election is hereby approved under Constitution Article VIII, as follows:

\_\_\_\_ Sec. 3

\_\_\_\_ Sec. 4

\_\_\_\_ Sec. 5

\_\_\_\_ Sec. 6

\*\* These 22 electee(s) are approved for initiation on April 12, 1994.

*(NOTE: You may initiate postponed electees if and only if they are eligible for membership at the time of their initiation unless your Advisory Board approved and documented the postponements.)*

\_\_\_\_ We need Catalog Card(s) for the following electee(s):

22 Keys have been ordered for delivery as soon as possible. (They usually require 3-4 weeks for delivery.)

22 Certificates have been ordered for delivery as soon as possible.

Approved by James D. Froula, P.E.  
James D. Froula, Secretary-Treasurer

PLEASE BE SURE TO ACCOUNT FOR ALL ELECTEES, INCLUDING ALUMNI AND ANY FROM YOUR POSTPONED INITIATIONS LIST, ON YOUR REPORT OF FINAL ACTION! THE REPORT OF FINAL ACTION SHOULD BE SENT AS SOON AS POSSIBLE AFTER YOUR INITIATION, WITH A PHOTOCOPY OF YOUR ROLL BOOK SIGNATURES.



Paul

4/29/94

Kansas Gamma

Checking on Keys & Certificates.

He felt that we held his

report of election for a

week before ordering K&C. <sup>(processing it)</sup>

But we need CC. Was a

little upset.

~~CHAB~~ Dr. Foulon  
KS G & K&C  
Rec'd  
April 18.



8/25/94

RS - G

Brenda

Questions about reimbursements.  
+ air line fares.

Dr. Fowler on sabbatical  
at West Point.



===== 17

Date: Thu, 29 Sep 94 18:44:33 LCL  
From: Sarah MacKenzie <PA82498@UTKVM1.UTK.EDU>  
Organization: Tau Beta Pi National Office  
Subject: Elig. Report  
To: "Paul Kippes, KS G Cor Sec" <pkippes@ksu.ksu.edu>

Paul,

We received your corrected Report of Eligibility.  
If there are any further problems, we'll let you know.

Remember to send the white cover sheet.

Thanks,  
Sarah MacKenzie  
TBP National  
pa82498@utkvm1.utk.edu





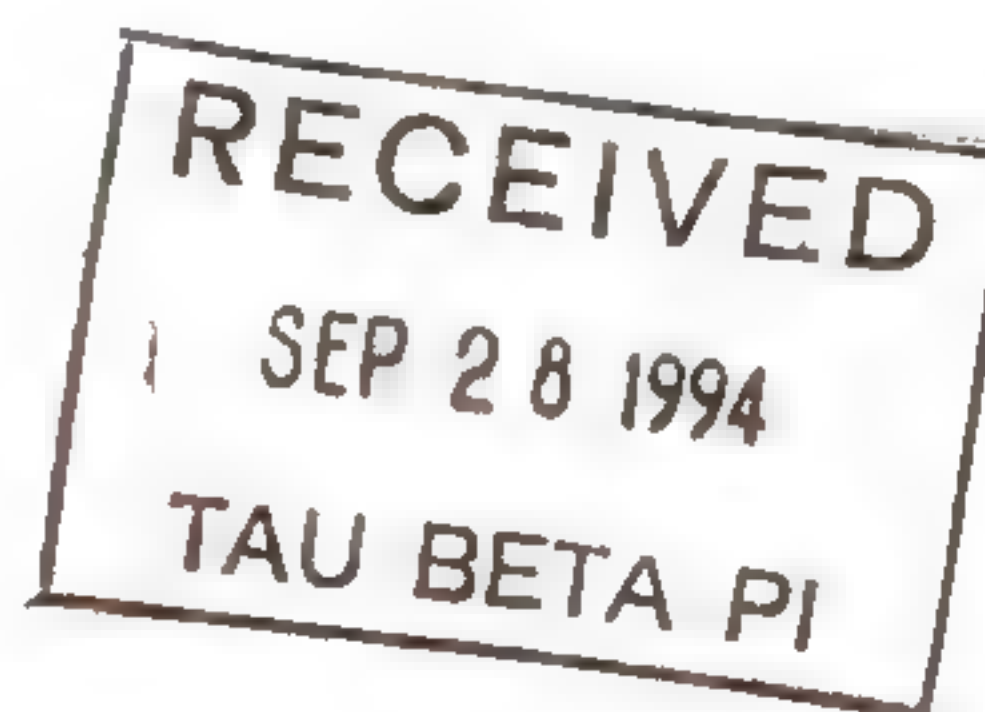
===== 17  
Date: Mon, 26 Sep 94 15:28:32 LCL  
From: Sarah MacKenzie <PA82498@UTKVM1.UTK.EDU>  
Organization: Tau Beta Pi National Office  
Subject: Report of Eligibility  
To: "Paul Kippes, ~~KS G~~ Cor Sec" <pkippes@ksu.ksu.edu>

Paul,

We received your Report of Eligibility. If there are any problems, we'll let you know.

Remember to send the white cover sheet.

Thanks,  
Sarah MacKenzie  
TBP National  
pa82498@utkvm1.utk.edu





===== 16

Date: Tue, 27 Sep 94 17:42:32 LCL  
From: Sarah MacKenzie <PA82498@UTKVM1.UTK.EDU>  
Organization: Tau Beta Pi National Office  
Subject: Eligibility Report  
To: "Paul Kippes, KS G Cor Sec" <pkippes@ksu.ksu.edu>

Paul,

726 146

Please check your eligible numbers.

seniors ~~152~~,  $1/5 = 31$

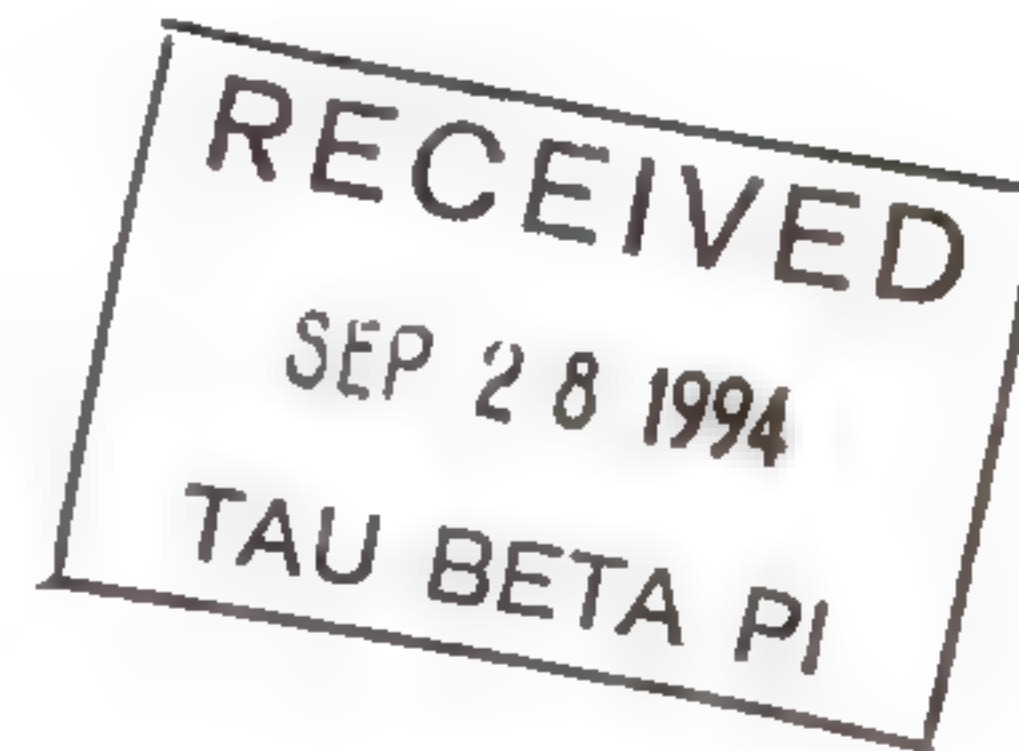
juniors 51,  $1/8 = 7$

359 - 45

You have listed too many juniors and seniors.

If you have any questions, please call.

Thank you,  
Lanita



9/29/94

Paul will resend  
w/ correction  
still listed too many



THE TAU BETA PI ASSOCIATION  
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P.O. BOX 8840, UNIVERSITY STATION  
KNOXVILLE, TENNESSEE 37996  
TELEPHONE 615/546-4578

**ELIGIBILITY ACKNOWLEDGEMENT OF CANDIDATES FOR ELECTION**

To the President of the  
Kansas Gamma

Date September 30, 1994

Chapter:

\*\* Your Report of Eligibility has been received, thank you.

\*\* Your undergraduate student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 2.

Your graduate-student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 3, as follows:

Your alumnus candidate(s) are judged to be eligible for election to membership under Constitution Article VIII, as follows:

Please make sure you return the coversheet to us. If your chapter Section 4(a)(1)(2)(3)(4)(5).\* is eligible for a Secretary's Commendation Award and we haven't received your cover sheet, you won't receive the award. Thanks, Section 5(a)(1)(2)(3)(4)(5).\*  
Rebecca Section 6(a)(b).\*

\*(All elections under Sections 4, 5, & 6 shall comply with the applicable provisions of Sec. 7.)

**THIS LETTER IS NOT YOUR OFFICIAL INITIATION APPROVAL TO HOLD YOUR INITIATION.** It is only a judgment of the technical eligibility of these candidates for election to membership. Approval of their initiation will be given as soon as your Report of Election and Catalog Cards have been received.

Please be sure to enter, on the Report of Election, the proper action taken by your chapter on every eligible candidate, in accord with instructions on the report form.

When you send your Report of Election and a Catalog Card for each electee, keys and certificates will be ordered. *Please remind electees that Catalog Cards are permanent records of their membership and that we need full names (no initials), legibly printed by each electee, class years, and proper mailing addresses.*

If you requested electees' materials, including Constitution and Bylaws booklets, etc., and/or Bent castings on the Report of Eligibility, they are being shipped to you today. Creed cards were mailed earlier. If you will need motto slips for your initiates, please let me know when you send your Report of Election; you probably have a supply in your initiation kit.

Approved by James D. Froula, P.E.  
James D. Froula, Secretary-Treasurer



Adam Herne RS - Gamma 10/13/24

Alec Hendryx - E!g -  
Elect Acc at RS B. - postponed  
Per RETH because not approved  
postponement can't be initiated  
till next semester & must ~~be~~  
be eligible Adam wanted  
to know if he had to go  
then chapter requirements. Told  
him it was up to chapter.



11/18/94

RS - h

Paul

Change grad dates:

Melissa Miller - 5/97

Joel Thomas - 12/96

Lyle Hays - 5/97

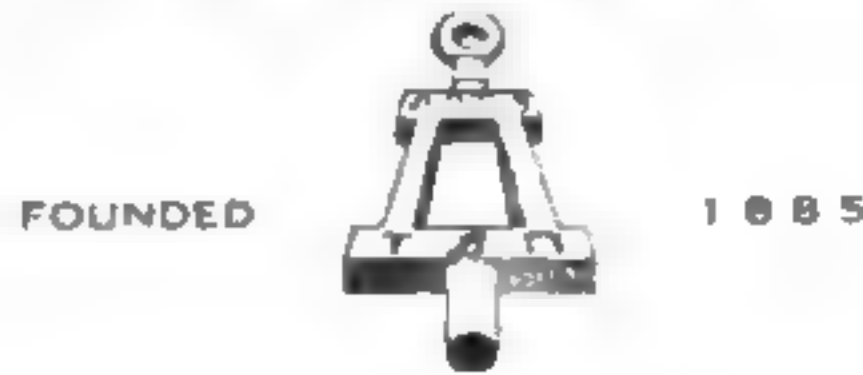
Omit 11/21/94

Will pay next day

UPS



THE TAU BETA PI ASSOCIATION  
INCORPORATED  
NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES



P.O. BOX 8840, UNIVERSITY STATION  
KNOXVILLE, TENNESSEE 37996  
TELEPHONE 615/546-4578

OFFICIAL APPROVAL TO HOLD YOUR INITIATION

To the President of the Kansas Gamma Chapter: Date November 9, 1994

\*\* Your Report(s) of Election and Catalog Card(s) for eligible students have been received and your election of 27 undergraduate(s) is hereby approved, under Constitution Article VIII, Section 2.

     Your Report(s) of Election and Catalog Card(s) for graduate-student, alumnus, and eminent engineer candidate(s) have been received and their election is hereby approved under Constitution Article VIII, as follows:

Sec. 3

Sec. 4

Sec. 5

Sec. 6

\*\* These 27 electee(s) are approved for initiation on November 21, 1994.

*(NOTE: You may initiate postponed electees if and only if they are eligible for membership at the time of their initiation unless your Advisory Board approved and documented the postponements.)*

\*\* We need Catalog Card(s) for the following electee(s): Jay M. Caynar -- we cannot order a key and certificate for him until we receive his catalog card.

25 Keys have been ordered for delivery as soon as possible. (They usually require 3-4 weeks for delivery.)  
You should have a key for Lakin

26 Certificates have been ordered for delivery as soon as possible.

Approved by James D. Froula, P.E.  
James D. Froula, Secretary-Treasurer

PLEASE BE SURE TO ACCOUNT FOR ALL ELECTEES, INCLUDING ALUMNI AND ANY FROM YOUR POSTPONED INITIATIONS LIST, ON YOUR REPORT OF FINAL ACTION! THE REPORT OF FINAL ACTION SHOULD BE SENT AS SOON AS POSSIBLE AFTER YOUR INITIATION, WITH A PHOTOCOPY OF YOUR ROLL BOOK SIGNATURES.



# THE TAU BETA PI ASSOCIATION

## POSTPONED & FINANCIAL REFUSAL ELECTEES

Chapter Kansas Gamma

Date Fall 1994

The persons listed below were elected by your chapter during past initiation seasons as noted. They have refused membership for financial reasons (Constitution Article VIII, Section 10) or have simply missed attending a formal initiation. Unless their election is to be cancelled, at the option of your chapter, the following three options apply:

- A) Persons whose names appear on this list and who remain eligible for membership may be initiated at the next regular initiation without re-election. Such electees who graduate may be initiated without re-election within five years from the date of election.
- B) Persons listed who become academically ineligible *and* whose postponements have been *approved and documented* by the Advisory Board may be initiated at the next regular initiation.
- C) Persons listed who become ineligible and whose postponements have *not* been approved by the Advisory Board must become eligible again and be re-elected during a subsequent term in order to be initiated.

If it is inconvenient for them to return to your chapter for initiation, arrangements can be made through the National Headquarters for their initiation by chapters near their homes.

Please indicate the action to be taken on each electee listed; i.e., To be initiated on \_\_\_\_\_ (date); Election cancelled by the chapter; Continue financial refusal or postponed status; etc.

| Name & Class             | Status / Date Elected | Advisory Board Approval | Re: Key Chapter has | Action by Chapter |
|--------------------------|-----------------------|-------------------------|---------------------|-------------------|
| - Todd F. Lakin, '96     | Post - Fall 1993      |                         |                     | Init 11/21/94     |
| - Michelle D. Doty, '95  | Post - Spring 1994    |                         | "                   | ↓                 |
| - Kevin J. Rottmaus, '95 | "                     |                         | "                   | ✓                 |
|                          |                       |                         |                     |                   |
|                          |                       |                         |                     |                   |







Corresponding - ~~Wed.~~ 12-2-94  
Sec. KS.G.

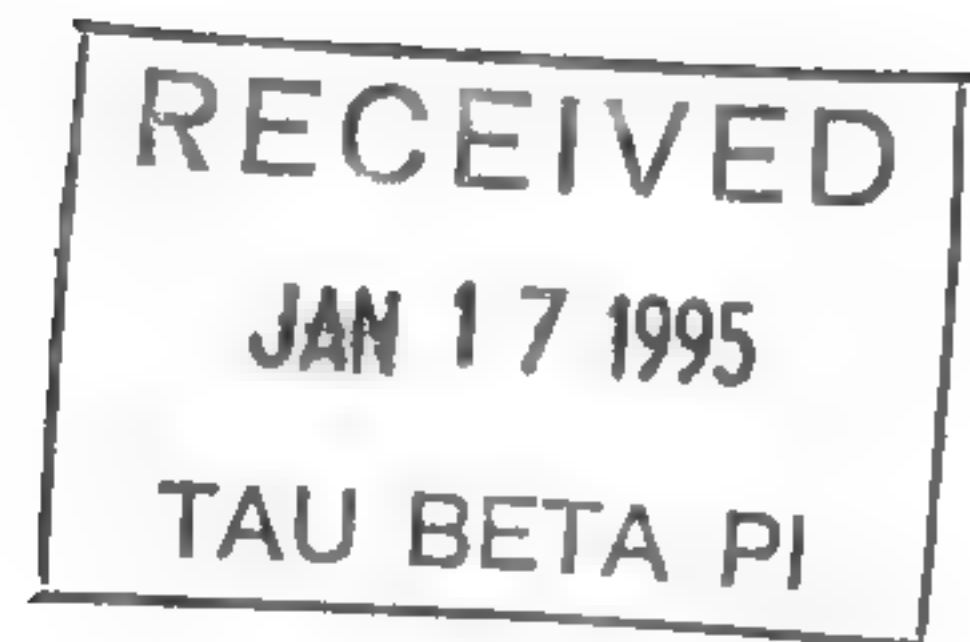
Paul Kippis  
249 Putnam  
Manhattan KS 66506

Elect of new officers Wed.  
11-30  
made form to report them  
on -

Please mail to Paul.

med  
12/2/94





Kansas State University  
Tau Beta Pi  
261 Durland Hall  
Manhattan, KS 66506

January 12, 1995

Tau Beta Pi Association  
P.O. Box 8840  
University Station  
Knoxville, Tennessee 37996-0002

Tau Beta Pi Staff:

I have enclosed the Chapter Officers' Information sheet. Our chapter apologizes for the time it took us to get this report sent in and we are striving to improve over last semester's mistakes. It has also been made known to me that we are late on other reports, so we will do our best to get those sent in as promptly as possible. Thank you for your patience and time.

Sincerely,

A handwritten signature in cursive script that reads "Randy Schwartz".

Randy Schwartz  
President, Kansas Gamma

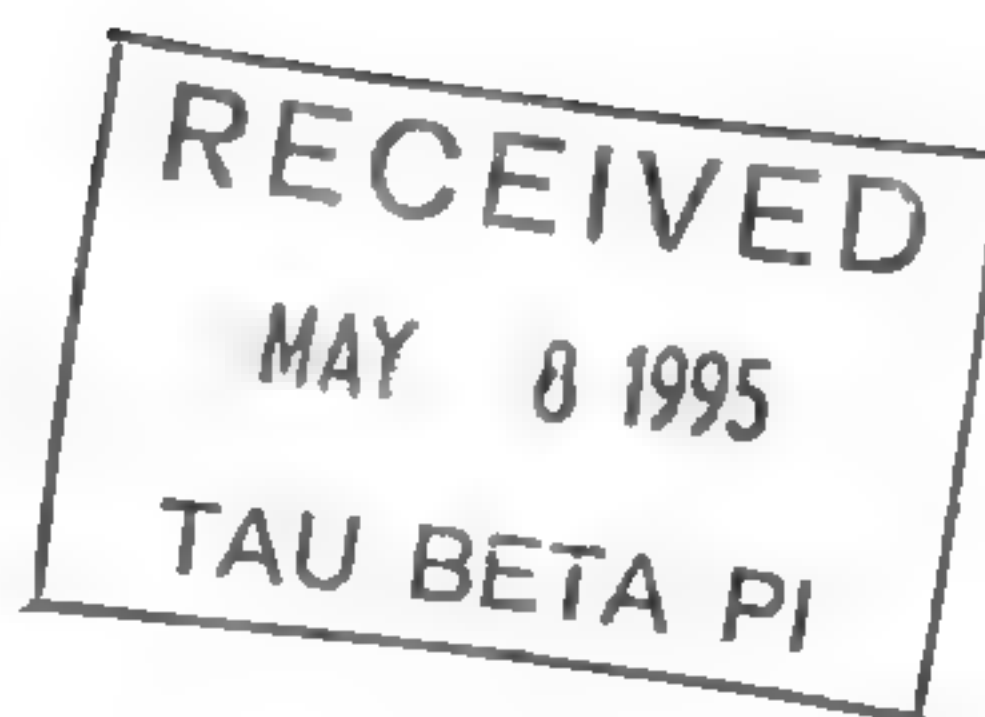


THE TAU BETA PI ASSOCIATION  
INCORPORATED  
NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES

FOUNDED



1885



KANSAS GAMMA CHAPTER  
KANSAS STATE UNIVERSITY  
MANHATTAN, KS 66506

~~\$~~480.<sup>80</sup>

Here are the fees to go with initiation for spring '95.  
Sorry they are late, but I wanted to send in the  
catalog cards ASAP and the report of final action  
was all prepared.

*Robert Allen*

KS  $\Gamma$  Cataloger



**FOUNDED**



1882

Don't forget to send copy  
of Roll Book signed by  
with Report of Final Action.

**PLEASE BE SURE TO ACCOUNT FOR ALL ELECTEES, INCLUDING ALUMNI AND ANY FROM YOUR POSTPONED INITIATIONS LIST, ON YOUR REPORT OF FINAL ACTION! THE REPORT OF FINAL ACTION SHOULD BE SENT AS SOON AS POSSIBLE AFTER YOUR INITIATION, WITH A PHOTOCOPY OF YOUR ROLL BOOK SIGNATURES.**



THE TAU BETA PI ASSOCIATION  
INCORPORATED  
NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES

FOUNDED



1885

P.O. BOX 8840, UNIVERSITY STATION  
KNOXVILLE, TENNESSEE 37996  
TELEPHONE: 615/546-4578

JAMES D. FROULA  
SECRETARY-TREASURER

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

REPORT OF FINAL ACTION ACKNOWLEDGMENT

Date May 11, 1995

To the President of the Kansas Gamma Chapter:

The Report of Final Action and photocopy of the Roll Book signatures for your April 24, 1995 initiation have been received. Thank you!

According to your report, your chapter initiated the following:

16 C-VIII, Sec. 2 Undergraduate Student(s)

           C-VIII, Sec. 3 Graduate Student(s)

           C-VIII, Sec. 4 Alumnus(i)

           C-VIII, Sec. 5 Alumnus(i)

           C-VIII, Sec. 6 Eminent Engineer(s)

16 TOTAL NUMBER OF NEW MEMBERS

If your chapter records do not agree with these figures, please notify me at once. Your chapter account is being charged with national initiation fees and Convention assessments for this total number of new members. The fees and assessments are due within ten days after initiation.

Catalog Cards or other materials needed from you to complete our records are noted below and must be sent immediately. If nothing is noted, then our record of the initiation is complete, thank you.

Keys and certificates will be shipped in 3-4 weeks.

Sincerely yours,

  
James D. Froula

KSG Fall 95



Department of Industrial and Manufacturing  
Systems Engineering

237 Durland Hall  
Manhattan, Kansas 66506-5101  
913-532-5606  
FAX: 913-532-7810  
EMail: IMSE@KSUVM.KSU.EDU



Professor Eddie R. Fowler  
Electrical and Computer Engineering  
Durland Hall  
Campus

Dear Dr. Fowler:

I would like to recommend the following student to be  
admitted to the Tau Beta Pi Society:

See

Mr Hsu-Shih Shih, a Ph.D. candidate at the Industrial &  
Manufacturing System Engineering, 100 Jardine Terrace.  
Apt A-3, Phone: 776-1759. He is in the top 25% (by GPA)  
in his class and he is near completion of his degree  
requirements ( He will obtain his Ph.D. in December,  
1995).

Sincerely yours,

A handwritten signature in black ink, appearing to read "E. Stanley Lee".

E. Stanley Lee  
Professor and Major Advisor





**Department of Civil Engineering**

119 Seaton Hall  
Manhattan, Kansas 66506-2905  
913-532-5862  
FAX: 913-532-7717



Sep. 21, 1995

Prof. Eddie Fowler  
Department of Electrical Engineering  
Kansas State University  
Manhattan, KS 66506.

RE: Recommendation of Mr. Krishnakumar V. Nedunuri to Tau Beta Pi

Dear Prof. Fowler,

This letter is written on behalf of Mr. Krishnakumar V. Nedunuri who is desirous of joining the Tau Beta Pi Honor Society. He is an outstanding Ph.D. student (cumulative GPA 4.00/4.00) and fully deserves membership in the society. He has been here over a year and has completed over 50% of his degree requirements. Here are some additional details:

|           |   |
|-----------|---|
| Name:     | Krishnakumar V. Nedunuri  |
| Address:  | Department of Civil Engineering<br>Seaton Hall<br>Kansas State University<br>Manhattan, KS 66506. |
| Phone No. | Off: 2-7612<br>Hm: 913-587-8922   |

If you have any questions, please contact me. Thank you and best regards.

Sincerely,

Rao S. Govindaraju  
(Assistant Professor)  
govind@unix.ksu.edu



**Department of Electrical  
and Computer Engineering**

261 Durland Hall  
Manhattan, Kansas 66506-5105  
913-532-5600



September 28, 1995

Kansas Gamma Chapter of Tau Beta Pi

I hereby nominate Mr. A. Lakshmikanth to be initiated into Tau Beta Pi. He is pursuing a Master's degree in electrical engineering and expected to graduate in May 1996. He is in the top 25% by (GPA) of all graduate students in the College of Engineering (he has a 4.0 GPA) and has completed at least 75% of the degree requirement. If you need any further information please let me know.

Sincerely,

Medhat M. Morcos

Medhat M. Morcos  
Associate Professor  
Telephone: (913)532-4678  
FAX: (913)532-7810  
E-mail: morcos@eece.ksu.edu

MMM/jm





KSU  
Fall 1995

## Department of Civil Engineering

119 Seaton Hall  
Manhattan, Kansas 66506-2905  
913-532-5862  
FAX: 913-532-7717

September 29, 1995

Dr. Eddie R. Fowler

Professor

Department of Electrical and Computer Engineering

Durland Hall

CAMPUS.

Sec. 3

Re: Recommendation for induction of Mr. Mohammed Shoeb Uddin into Tau Beta Pi.

Dear Dr. Fowler:

Thank you for the invitation letter sent by the Cataloger of the Kansas Gamma Chapter of Tau Beta Pi about the initiation. I am pleased to recommend Mr. Mohammed Shoeb Uddin, 200 Jardine Terrace, #F10, Manhattan, KS 66502 (Tel No. 532-9094) for induction into the Tau Beta Pi. Mr. Uddin enrolled as a graduate student in civil engineering in the Fall of 1994. Thus far, he has completed 15 hours of graduate level courses out of required 24 hours (62.5%). The courses are:

CE 641: CE Materials I

CE 776: Pavement Performance & Management Systems

STAT 510: Introductory Probability and Statistics I

STAT 703: Statistical Methods for Natural Scientists

IE 560: Introduction to Operations Research I

He has maintained a Grade Point Average of 4.00 over the last two semesters. He also has made good progress in his research for a masters thesis. He is a hard working, inquisitive and intelligent student. Mr. Uddin is one of our brightest students who has distinguished himself in outstanding scholarship and exemplary character. I am certainly proud of him and I wish him the best in the future. I thank you again for making me associated with the induction process for this prestigious society and if you have any questions, please call me at 2-1576 or send an E-mail at MUSTAK@KSUVM.

Very truly yours,

Mustaque Hossain, Ph.D., P.E.  
Assistant Professor

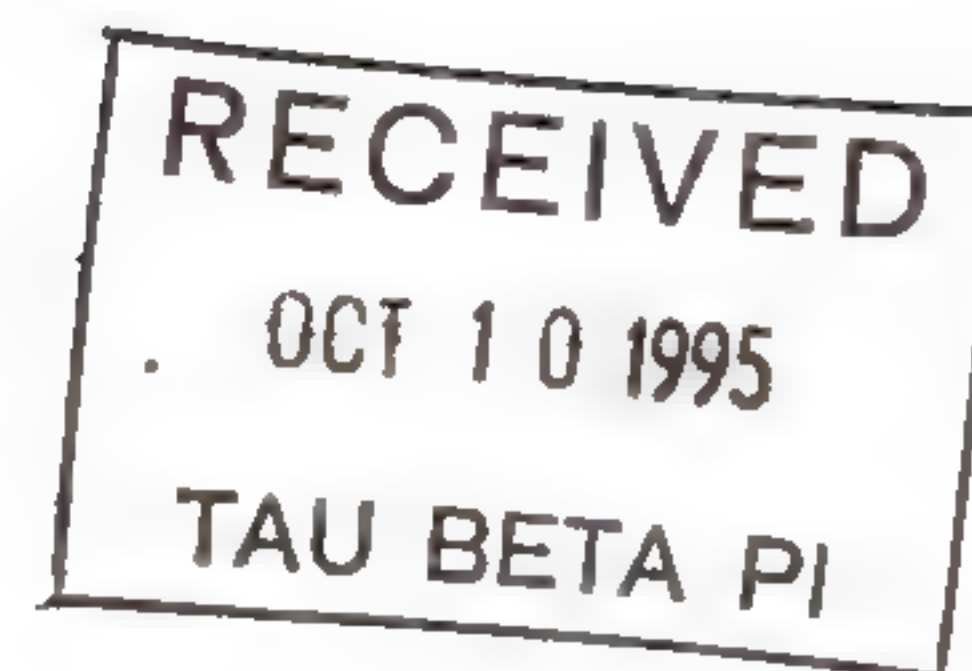
cc. Dr. Staurt E. Swartz, Professor and Head.





Department of Civil Engineering

119 Seaton Hall  
Manhattan, Kansas 66506-2905  
913-532-5862  
FAX: 913-532-7717



September 29, 1995

Dr. Eddie Fowler  
Electrical Engineering Department  
Durland Hall, Room 266  
Kansas State University  
Manhattan, KS 66506

Dear Dr. Fowler:

Sec. 3

It is with great pleasure to recommend **Mr. Imad A. Basheer** for your **Tau Beta Pi** National Engineering Honor Society. I have been Imad's doctoral faculty advisor for the past two years.

Imad is pursuing his Ph.D. in Civil Engineering. Currently, he is working on his doctoral dissertation and preparing for his preliminary examination. He has completed all of his course work with an outstanding GPA of 3.97. Therefore, he has finished more than 50% of his degree requirements. Also, with a GPA = 3.97, he is definitely in the top 25% of all graduate students in the College of Engineering. Based on my long and day-to-day contact with Imad, I have found that he has the potential to be an outstanding Engineer. I have full confidence in him to successfully complete his doctoral work. You can always count on him to do the job assigned to him. He is very organized, mature, punctual, polite, talented, hardworking and pleasant -- characteristics you admire in every outstanding person.

Based on my experience with Imad, I proudly say with full confidence that he is definitely among those outstanding students that you would like to have in your **Tau Beta Pi** honor society. Therefore, and without any reservations, I strongly recommend **Mr. Imad A. Basheer** for your honor society.

If I can be of further assistance, please feel free to contact me at (913) 532-5863.

Sincerely,

*Yacoub Najjar*

Yacoub M. Najjar, Ph.D.  
Assistant Professor



KSG Fall 95

Phil Knutson  
587-8336

## CURRICULUM VITAE

GEORGE P. "BUD" PETERSON

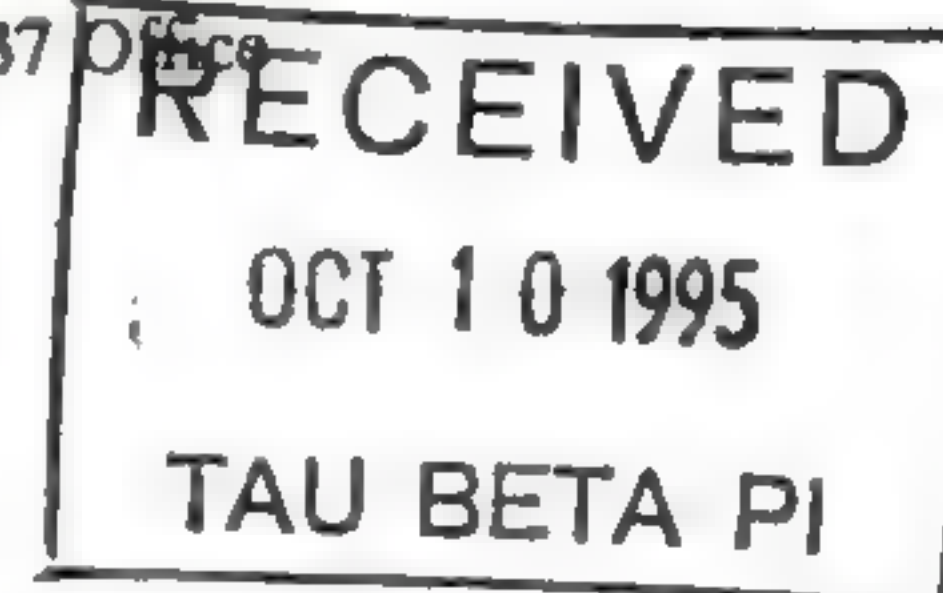
- Sec. 6(a)

Birthdate: September 1, 1952  
Birthplace: Palo Alto, CA  
Marital Status: Married, four children  
Citizenship: USA

4125 Sweetwater Drive  
College Station, TX 77745  
(409) 690-6668 Home  
(409) 845-5337 Office

### PROFESSIONAL INTERESTS:

Phase Change Heat Transfer, Conduction and Thermal Contact Resistance  
Thermal Control of Electronic Components and Spacecraft Systems



### EDUCATION:

Ph.D. Mechanical Engineering, Texas A&M University, College Station, TX, 1985.  
M.S. Engineering, Kansas State University, Manhattan, KS, 1980.  
B.S. Mathematics, Kansas State University, Manhattan, KS, 1977.  
B.S. Mechanical Engineering, Kansas State University, Manhattan, KS, 1975.

not on

### EXPERIENCE:

#### *National Science Foundation (NSF), Washington, D.C.*

Program Director, Thermal Transport and Thermal Processing Program, August 1, 1993 - September 31, 1994.

#### *Texas A&M University, College Station, Texas*

Head, Department of Mechanical Engineering, Texas A&M University, July 1993 - present.  
Head, Mechanical Engineering Division, Texas Engineering Experiment Station, July 1993 - present.  
Tenneco Professor of Mechanical Engineering, September 1991 - present.  
Halliburton Professor of Mechanical Engineering, September 1990 - August 1991.  
Division Head, Thermal and Fluid Sciences Division, September 1989 - August 1991.  
Professor of Mechanical Engineering, August 1990 - present.  
Associate Professor of Mechanical Engineering, August 1988 - August 1990.  
Assistant Professor of Mechanical Engineering, June 1985 - August 1988.  
Coordinator, Mechanical Engineering Technology, August 1983 - May 1985.  
Assistant Professor of Engineering Technology, August 1981 - May 1985.

#### *NASA-Johnson Space Center, Houston, Texas*

Research Scientist, May 1981 - August 1981.  
Research Scientist, May 1982 - August 1982.

#### *Kansas Technical Institute, Salina, Kansas*

Associate Professor and Department Head, General Engineering Technology Department, June 1979 - May 1981.

#### *Shawnee Mission South High School, Overland Park, Kansas*

Mathematics Teacher, August 1978 - May 1979.

#### *Wabaunsee County High School, Alma, Kansas*

Mathematics, Physics, and Chemistry Teacher, August 1977 - May 1978.

#### *Black & Veatch Consulting Engineers, Kansas City, Missouri*

Associate Engineer, May 1975 - August 1975.



## PROFESSIONAL REGISTRATION:

Registered EIT - Kansas, 4241, 1975.

Registered P.E. - Texas, 64403, 1988.

## BOOKS AND BOOK CHAPTERS:

1. Marto, P. J. and Peterson, G. P., Chapter 4, "Application of Heat Pipes to Electronics Cooling," in *Advances in Thermal Modeling of Electronic Components and Systems*, A. Bar-Cohen and A. D. Kraus (eds.), Hemisphere Publishing Corporation, New York, NY, pp. 283-336, 1988.
2. Peterson, G. P. and Ortega, A., "Thermal Control of Electronic Equipment and Devices," *Advances in Heat Transfer*, Vol. 20, J. P. Hartnett and T. F. Irvine (eds.), Pergamon Press, New York, NY, pp. 181-314, 1990.
3. Peterson, G. P., "Operation and Applications of Microscopic Scale Heat Pipes," *Encyclopedia of Science and Technology*, Invited Chapter, Vol. 20, McGraw-Hill Publ. Co., New York, NY, pp. 197-200, 1993.
4. Peterson, G. P., *An Introduction to Heat Pipes: Modeling, Testing and Applications*, John Wiley & Sons, New York, NY, September 1994, 356 pgs.
5. Peterson, G. P., Swanson, L. W. and Gerner, F. M., "Micro Heat Pipes," in *Microscale Energy Transport*, C. L. Tien, A. Majumdar and F. M. Gerner (eds.) Taylor-Francis Publishing Co., Washington D.C., in press.
6. Peterson, G. P., "Heat Transfer Fundamentals," *Mechanical Engineers' Handbook*, 2nd Edition, Meyer Kutz (ed.) John-Wiley & Sons, Inc., New York, NY, in press.
7. Peterson, G. P., "Chapter 12 - Heat Pipes" *McGraw-Hill Handbook of Heat Transfer*, W. M. Rohsenow, J. P. Hartnett and Y. I. Cho, (eds.), McGraw-Hill Publishing Co., Washington D.C., in preparation.

## REFEREED JOURNAL PUBLICATIONS:

1. Konz, S. A., Peterson, G. P. and Joshi, A., "Reducing Inspection Errors," *Quality Progress*, Vol. 14, No. 7, 1981, pp. 24-27.
2. Peterson, G. P., "Priming Considerations of Heat Pipes in Zero-g," *Heat Transfer and Fluid Mechanics Institute*, Vol. 28, 1982, pp. 201-211.
3. Peterson, G. P., "Capillary Priming Characteristics of a High Capacity Dual Passage Heat Pipe," *Chemical Engineering Communications*, Vol. 27, No. 1, 1984, pp. 119-126, (also as ASME Paper No. ASME 82-HT-14, June 1982).
4. Peterson, G. P., "Pre-machining of Bearing Carriers," *Robotics and Factories of the Future*, S. N. Dwivedi (ed.), Springer-Verlag, 1984, pp. 163-174.
5. Peterson, G. P., Marshal, P. F., "Analytical and Experimental Determination of Heat Pipe Priming in Micro-g," *Research and Developments in Heat Pipe Technology*, Vol. 5, K. Oshima (ed.), JaTech Publishing Co., 1984, pp. 434-439.
6. Peterson, G. P., "Applied Research: A Cooperative Venture," *Computer Aided Processes in Instruction and Research*, edited by G. C. Beakley, Academic Press, 1985, pp. 353-366.
7. Peterson, G. P., "Two-Phase Fluid Flow in Reduced Gravity Environments," *Heat Transfer and Fluid Mechanics Institute*, Vol. 29, 1985, pp. 45-59.
8. Kundu, N. and Peterson, G. P., "Transmission of Solid Particulates Using a Two-Phase Medium," *ASME Journal of Energy Resources Technology*, Vol. 109, No. 1, 1986, pp. 35-39, (also in *Proc. 7th ASME/ETCE Pipeline Engineering Symposium*, pp. 131-137, February 1986).
9. Peterson, G. P., "Thermal Control Systems for Spacecraft Instrumentation," *AIAA J. Spacecraft and Rockets*, Vol. 24, No. 1, 1986, pp. 7-14.
10. Peterson, G. P. and Compagna, G. L., "A Review of Cryogenic Heat Pipes in Spacecraft Applications," *AIAA J. Spacecraft and Rockets*, Vol. 24, No. 2, 1986, pp. 99-101, (also as AIAA Paper No. 86-1254, June 1986).
11. Grubbs, A. B. and Peterson, G. P., "Establishing an Applied Research Program," *Journal of Engineering Technology*, Vol. 3, No. 2, 1986, pp. 28-33, (also as ASME Paper No. 85-WAM-56, November 1985).



12. Peterson, G. P., "Determination of the Cross-Sectional Temperature Distribution and Boiling Limitation of a Heat Pipe," *ALAA J. Thermophysics and Heat Transfer*, Vol. 1, No. 2, 1987, pp. 189-192, (also as AIAA Paper No. 86-0066, January 1986).
13. Peterson, G. P. and Annamalai, K., "A Differential Approach to Heat Pipe Priming in Microgravity," *Chemical Engineering Communications*, Vol. 52, No. 1-3, 1987, pp. 151-161, (also as ASME Paper, FED-Vol. 42, pp. 25-31, December 1986).
14. Peterson, G. P. and Fletcher, L. S., and Peddicord, K. L., "Thermal Conductivity in Sphere-Pac Reactor Fuels," *Journal of Nuclear Science and Technology*, Vol. 24, No. 9, 1987, pp. 1-7, (also in *Proc. 2nd ASME/JSME Thermal Engineering Joint Conf.*, pp. 439-444, March 1987).
15. Peterson, G. P. and Fletcher, L. S., "Effective Thermal Conductivity of Sintered Heat Pipe Wicks," *ALAA J. Thermophysics and Heat Transfer*, Vol. 1, No. 4, 1987, pp. 343-347, (also as AIAA Paper No. 86-1362, June 1986).
16. Peterson, G. P., "Analysis of a Heat Pipe Thermal Switch," *Research and Developments in Heat Pipe Technology*, Vol. 6, Hemisphere Publishing, New York, N.Y., 1987, pp. 177-183.
17. Peterson, G. P. and Fletcher, L. S., "Thermal Contact Conductance of Packed Beds in Contact with Flat Surfaces," *ASME J. Heat Transfer*, Vol. 110, No. 1, February 1988, pp. 38-41.
18. Peterson, G. P., Niznik B. and Chan, L. M., "Development of an Automatic Screwdriver for Use with Industrial Robots," *IEEE J. Robotics and Automation*, Vol. 4, No. 4, August 1988, pp. 411-413.
19. Peterson, G. P. and Fletcher, L. S., "Evaluation of the Thermal Contact Conductance Between Mold Compound and Heat Spreader Material," *ASME J. Heat Transfer*, Vol. 110, No. 4, November 1988, pp. 996-999, (also as ASME Paper HTD-Vol. 69, pp. 99-106, August 1987).
20. Peterson, G. P. and Fletcher, L. S., "Thermal Contact Resistance of Silicon Chip Bonding Materials," in *Cooling Technology for Electronic Equipment*, W. Aung (ed.), Hemisphere Publishing Corporation, New York, N.Y., pp. 523-534, 1988.
21. Peterson, G. P., "Analytical Development and Computer Modeling of a Bellows Type Heat Pipe for Cooling of Electronic Components," *Heat Transfer Engineering*, Vol. 9, No. 3, 1988, pp. 101-109.
22. Havis, C. R., Peterson, G. P. and Fletcher, L. S., "Thermal Conductivity of Aligned Fiber Composite Materials," *ALAA J. Thermophysics and Heat Transfer*, Vol. 3, No. 4, 1989, pp. 416-422, (also as AIAA Paper No. 88-2658, June 1988).
23. Peterson, G. P. and Fletcher, L. S., "On the Thermal Conductivity of Dispersed Ceramics," *ASME J. Heat Transfer*, Vol. 111, No. 4, 1989, pp. 824-829, (also as ASME Paper WAM-Vol. 2, pp. 77-84, December 1988).
24. Duncan, A. B., Peterson, G. P. and Fletcher, L. S., "Effective Thermal Conductivity Within Packed Beds of Spherical Particles," *ASME J. Heat Transfer*, Vol. 111, No. 4, 1989, pp. 824-829.
25. Childres, W. and Peterson, G. P., "Quantification of Thermal Contact Conductance in Electronic Packages," *IEEE J. Components, Hybrids and Manufacturing Technologies*, Vol. 12, No. 4, 1989, pp. 717-723, (also in *Proc. 5th IEEE Thermal and Temperature Measurement Symposium*, pp. 30-36, February 1989).
26. Madhusudana, C. V., Fletcher, L. S. and Peterson, G. P., "Thermal Contact Conductance of Cylindrical Joints - A Critical Review," *ALAA J. Thermophysics and Heat Transfer*, Vol. 4, No. 2, April 1990, pp. 204-211, (also as AIAA Paper No. 89-0432, January 1989).
27. Fletcher, L. S., Peterson, G. P., Cunningham, G. and Pandey, R. K., "Spectral Properties of Selected Superconducting Materials," *ALAA J. Thermophysics and Heat Transfer*, Vol. 4, No. 3, July 1990, pp. 412-414, (also as AIAA Paper No. 89-1674, June 1989).
28. Babin, B. R. and Peterson, G. P., "Experimental Investigation of a Flexible Bellows Heat Pipe for Cooling Discrete Heat Sources," *ASME J. Heat Transfer*, Vol. 112, No. 3, August 1990, pp. 602-607, (also as ASME Paper No. 89-HT-18, August 1989).
29. Peterson, G. P. and Fletcher, L. S., "Measurement of the Thermal Contact Conductance and Thermal Conductivity of Anodized Aluminum Coatings," *ASME J. Heat Transfer*, Vol. 112, No. 3, August 1990, pp. 579-586, (also as ASME Paper HTD-Vol. 123, pp. 117-124, December 1989).
30. Babin, B. R., Peterson, G. P. and Wu, D., "Steady-state Modeling and Testing of a Micro Heat Pipe," *ASME J. Heat Transfer*, Vol. 112, No. 3, August 1990, pp. 595-601, (also as ASME Paper No. 89-HT-17, August 1989).



31. Madhusudana, C. V., Peterson, G. P. and Fletcher, L. S., "The Effect of Non-uniform Pressure on the Heat Transfer in Bolted and Riveted Joints," *ASME J. Energy Resources Technology*, Vol. 112, No. 3, September 1990, pp. 174-182, (also as ASME Paper HTD-Vol. 1, pp. 57-67, December 1988).
32. Fletcher, L. S., Peterson, G. P., Madhusudana, C. V., and Groll, E., "Constriction Resistance Through Bolted and Riveted Joints," *ASME J. Heat Transfer*, Vol. 112, No. 4, November 1990, pp. 857-863, (also as ASME Paper HTD-Vol. 123, pp. 107-117, December 1989).
33. Kang, T. K., Peterson, G. P. and Fletcher, L. S., "Effect of Metallic Coatings on the Thermal Contact Conductance of Turned Surfaces," *ASME J. Heat Transfer*, Vol. 112, No. 4, November 1990, pp. 864-871, (also as ASME Paper No. 89-HT-23, August 1989).
34. Peterson, G. P., "Experimental and Analytical Investigations of Micro Heat Pipes," *Research and Development in Heat Pipe Technology*, Vol. 7, L. L. Vasiliev (ed.), Hemisphere Publishing, New York, N.Y., December 1990, pp. 243-251.
35. Stevenson, P. F., Peterson, G. P. and Fletcher, L. S., "Thermal Rectification in Similar and Dissimilar Materials," *ASME J. Heat Transfer*, Vol. 113, No. 1, February 1991, pp. 30-36, (also as ASME Paper HTD-Vol. 123, pp. 125-132, December 1989).
36. Fletcher, L. S., Peterson, G. P. and Shaup, R., "Thermal Conductivity of Selected Superconducting Materials," *ASME J. Heat Transfer*, Vol. 113, No. 1, February 1991, pp. 274-276, (also as ASME Paper HTD-Vol. 123, pp. 83-89, December 1989).
37. Wu, D. and Peterson, G. P., "Investigation of the Transient Characteristics of a Micro Heat Pipe," *ALAA J. Thermophysics and Heat Transfer*, Vol. 5, No. 2, April, 1991, pp. 129-134, (also as AIAA Paper No. 90-0060, January 1990).
38. Peterson, G. P., Starks, G. and Fletcher, "Thermal Conductance of Two Space Station Cold Plate Attachment Techniques," *ALAA J. Thermophysics and Heat Transfer*, Vol. 5, No. 2, April, 1991, pp. 246-247, (also as AIAA Paper No. 89-1703, June 1989).
39. Veith, D., Peterson, G. P. and Fletcher, L. S., "Macroscopic Constriction Resistance in Microelectronic Packages," *ASME J. Heat Transfer*, Vol. 113, No. 2, May 1991, pp. 494-496, (also as ASME Paper HTD-Vol. 129, pp. 119-125, June 1990).
40. Saeed, B. and Peterson, G. P., "A Review of Rewetting of Hot Surfaces," *Heat Transfer and Fluid Mechanics Institute*, Vol. 32, June 1991, pp. 203-237.
41. Peterson, G. P. and Fletcher, L. S., "Heat Transfer Enhancement Techniques for Space Station Cold Plates," *ALAA J. of Thermophysics and Heat Transfer*, Vol. 5, No. 3, July 1991, pp. 423-428, (also as AIAA Paper No. 90-0541, January 1990).
42. Peterson, G. P. and Bage, B., "Entrainment Limitations in Thermosyphons and Heat Pipes," *ASME J. Energy Resources Technology*, Vol. 113, No. 3, September 1991, pp. 147-154, (also as ASME Paper HTD-Vol. 117, pp. 1-9, December 1989).
43. Wu, D., Peterson, G. P. and Chang, W. S., "Transient Experimental Investigation of Micro Heat Pipes," *ALAA J. of Thermophysics and Heat Transfer*, Vol. 5, No. 4, October 1991, pp. 539-545, (also as AIAA Paper No. 90-1791, June 1990, Received 1990 AIAA "Best Paper in Thermophysics Award").
44. Peterson, G. P., Fletcher, L. S. and Blackler, D., "Thermal Performance of Thermal Pad Contact Heat Exchangers," *ALAA J. of Thermophysics and Heat Transfer*, Vol. 6, No. 1, February 1992, pp. 69-76, (also as AIAA Paper No. 91-0364, January 1991).
45. Peng, X. F., Peterson, G. P. and Wang, B. X., "Capillary Induced Rewetting in a Flat Porous Cover Layer," *Int. J. of Heat and Mass Transfer*, Vol. 35, No. 2, February 1992, pp. 319-328.
46. Ochterbeck, J. M., Peterson, G. P. and Fletcher, L. S., "Thermal Contact Conductance of Metallic Coated BiCaSrCuO Superconductor/Copper Interfaces at Cryogenic Temperatures," *ASME J. Heat Transfer*, Vol. 114, No. 1, February 1992, pp. 21-29, (also as ASME Paper HTD-Vol.1, pp. 275-284, March 1991).
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72. Noboa, H. and Peterson, G. P., "Thermodynamic Aspects of Heat Pipes," *Proc. 9th Int'l Heat Pipe Conf.*, Albuquerque, NM, Vol. 1, pp. 134-144.
73. Boo, J. H., Yoon C. and Peterson, G. P., "An Experimental Study of the Thermal Performance of a Capillary Pumped Loop having a Flat Evaporator," AIAA Paper #95-3514, 1995 National Heat Transfer Conference, Portland, OR, August 5-8, 1995.
74. Shatto, D. P. and Peterson, G. P., "Experimental Investigation of the Effects of Velocity and Subcooling on the Critical Heat Flux in a Circular Tube," AIAA Paper #95-3513, 1995 National Heat Transfer Conference, Portland, OR, August 5-8, 1995.
75. Camarda, C. J., Rummler, D. R. and Peterson, G. P., "Multi Heat Pipe Panels," *NASA Tech Briefs*, LAR-14150, in press.
76. Ma, H. B. and Peterson, G. P., "Characteristics of the Minimum Meniscus Radius in Micro Heat Pipes," 34th AIAA Aerospace Sciences Conference, AIAA 96-, Reno, NV, January 15-18, 1996, accepted for publication.
77. Liu, X. Q. and Peterson, G. P., "Numerical Analysis of Vapor Flow in a Micro Heat Pipe with Rectangular Grooves," 34th AIAA Aerospace Sciences Conference, AIAA 96-, Reno, NV, January 15-18, 1996, accepted for publication.



## EDITED VOLUMES

1. Peterson, G. P., (ed.), *Proceedings of the 2nd ASME/ETCE Industrial Pollution Control Symposium*, American Society of Mechanical Engineers, Houston, Texas, January 3 - February 7, 1984.
2. Peterson, G. P. and Lau, S. C., (eds.), *Proceedings of the 3rd ASME/ETCE Industrial Pollution Control Symposium*, American Society of Mechanical Engineers, Dallas, Texas, February 17-21, 1985.
3. Imber, M., Peterson, G. P. and Yovanovich, M. M., (eds.), *Fundamentals of Conduction and Recent Developments in Contact Resistance*, ASME HTD-Vol. 69, ASME, New York, N.Y., 1987.
4. Peterson, G. P., (ed.), *Proceedings of the 1990 Intersociety Conference on Thermal Phenomena in Electronic Systems*, Institute of Electrical and Electronic Engineers, Library of Congress No. 89-81075, Las Vegas, NV, May 23-25, 1990.
5. Peterson, G. P. and Simons, R., (Guest eds.), *IEEE Trans. J. Components, Hybrids, and Manufacturing Technology*, Vol. 13, No. 4, December 1990.
6. Peterson, G. P. and Yovanovich, M. M. (ed.), *Fundamental Problems in Conduction Heat Transfer*, ASME HTD-Vol. 207, ASME, New York, N.Y., 1992.
7. Bayazitglou, Y. and Peterson, G. P., (ed.), *Fundamental Issues in Micro Scale Heat Transfer*, ASME HTD-Vol. 215, ASME, New York, N.Y., 1992.
8. Cho, D., Peterson, G. P., Pisano A. P. and Friedrich, (ed.), *Symposium on Micromechanical Systems*, ASME WAM-Vol. 40, ASME, New York, N.Y., 1992.

## GRADUATE STUDENT SUPERVISION

### M.S. Students and Thesis

1. Preetam Patnaik - M.S., August 1987, "Parametric Modeling of a Bellows Heat Pipe for Electronic Component Cooling"
2. Clark R. Havis, M.S. - December 1987, "Effects of Fiber Direction on Heat Conduction in Unidirectionally Aligned Fiber Composites"
3. Tik K. Kang - M.S., December 1989, "Effect of Metallic Coatings on the Thermal Contact Conductance of Turned Surfaces"
4. Abu H. Chowdhury - M.S., December 1989, "Reduced Pressure and Temperature Reclamation of Water Using the GE Integrated Water-Waste Management System for Potential Space Flight Applications"
5. Allen B. Duncan - M.S., December 1990, "Effective Thermal Conductivity of Packed Beds of Spheres"
6. Jay M. Ochterbeck - M.S., August 1990, "Thermal Contact Conductance of Metallic Coated Superconductor/Copper Interfaces at Cryogenic Temperatures"
7. Bruce R. Babin - M.S., August 1991, "Ion Drag Pump Assisted Heat Pipes"
8. Marvin D. Szeto - M.S., May 1992, "Experimental Investigation of a Micro Heat Pipes in Zero-g"
9. James T. Dickey - M.S., December 1993, "Modeling and Testing of a Capillary Pressure Driven Heat Transfer Loop"
10. Alicia H. Howard - M.S., December 1993, "Evaluation of a Heat Pipe Finned Heat Rejection System"
11. Donald P. Shatto - M.S., May 1995, "An Experimental Investigation of the Effects of Velocity and Subcooling on Convective Film Boiling in a Circular Tube"
12. Xiaoquin Liu - M.S., December 1995, "Supercritical Startup of Cryogenic Micro Heat Pipes"

### Ph.D. Students and Thesis

1. Jay M. Ochterbeck - Ph.D., August 1993, "Restart of a Heat Pipe from the Frozen State: Incorporating Thermal History Effects"
2. Allen B. Duncan - Ph.D., August 1993, "Experimental and Analytical Evaluation of Etched Micro Heat Pipes"
3. Arnab K. Mallik - Ph.D., August 1993, "Vapor Deposited Micro Heat Pipe Modeling, Testing, and Development"
4. Bonghun Kim, Ph.D. - May 1994, "Analytical and Experimental Investigation of Entrainment in Operating Heat Pipes"



5. Xiao-Jun Lu, Ph.D. - December 1995, "Analytical and Numerical Modeling of Frozen Heat Pipe Start-Up from the Frozen State"
6. Ja-Mann Ha, Ph.D. - December 1995, in progress, "Analysis of the Rewetting of Grooved Surfaces with Nonuniform Heating"
7. Donald P. Shatto - Ph.D., August 1995, "Investigation of Flow boiling in Binary Mixtures"
8. Hongbin Ma - Ph.D., in progress, "The Frictional Vapor-Liquid Interaction Occurring in Micro Heat Pipes"
9. Chang S. Chang - Ph.D., in progress, "Frictional Pressure Drop and Heat Transfer Characteristics in Microchannels"
10. James T. Dickey - Ph.D., in progress, "Investigation of Liquid-Vapor Flow and heat Transfer in Porous Media"

#### **Senior Honors Theses Directed**

1. Peter F. Stevenson - Senior Honors Thesis, "Thermal Rectification in Dissimilar Metal Contacts," May 1988.
2. Gregory Starks - Senior Honors Thesis, "Comparative Evaluation of Two Attachment Techniques for Space Station Cold Plates," May 1989.
3. Nancy K. Tsai - Senior Honors Thesis, "An Investigation of Entrainment limits in Heat Pipes," May 1990.
4. Kelly Albrecht - Senior Honors Thesis, "A Study of the Refrigeration Characteristics of a Vortex Heat Exchanger," May 1991.

#### **PROFESSIONAL SERVICE:**

##### **Editorial Activities**

- \* Associate Editor, *ASME Journal of Energy Resources Technology*, January 1986 - December 1992.
- \* Editor, *Heat Transfer Division Newsletter*, June 1990 - May 1993.
- \* Editor, *Heat Transfer - Recent Contents*, June 1992 - May 1997.
- \* Editor for North America, *Experimental Thermal and Fluid Science*, May 1, 1993 - April 30, 1996.
- \* Editorial Advisory Committee for *Heat Transfer and Fluid Flow*, August 1, 1994 - July 31, 1997.

##### **ASME - American Society of Mechanical Engineers, (Fellow)**

- \* Region X Representative, Mechanical Engineering Technology Department Heads Committee, July 1984-June 1985.
- \* Fluids Division, Member, Multi-Phase Flow Committee, January 1985-December 1993.
- \* Petroleum Division, Industrial Pollution Control Operating Committee, Vice-Chairman, 1985; Chairman, January 1985-January 1987.
- \* Heat Transfer Division, K-8 Committee on Theory and Fundamental Research, Member, December 1985-December 1993; Secretary, 1988-1993.
- \* Heat Transfer Division K-16 Committee on Heat Transfer in Electronic Equipment, Member, 1986-present; Vice-Chairman for Publications, January 1988-December 1991.
- \* Brazos Valley Section of ASME, Chairman, May 1986-April 1987; Vice-Chairman; May 1985-April 1986; Secretary, May 1984-April 1985.
- \* Petroleum Division Executive Committee, Member, June 1986-July 1992; Treasurer, 1988, Secretary, 1989, 1st Vice-Chairman, 1990, Chairman, 1991, Past Chairman, 1992.
- \* Committee on the Technology Executives Conference (CTEC), June 1989-May 1992.
- \* Region X Commission on Technical Affairs, Chairman, June 1989-May 1992.
- \* Emerging Technology Committee, Member, January 1989-December 1991.
- \* ASME/AIChE Nat'l Heat Transfer Conference Organizing Committee, Member, June 1990-1992.
- \* ASME/JSME Conference Committee, 1993-1995.
- \* Heat Transfer Division Executive Committee, Secretary, July 1, 1993-June 30, 1995, Member, July 1, 1995-June 31, 1996.



## ASME National Conference Activities

- \* Session Chairman, "Waste Heat Recovery," 6th Energy-sources Technology Conference and Exhibition, Houston, Texas, January 31- February 3, 1983.
- \* Symposium Chairman, Industrial Pollution Control Symposium, 7th Annual ETCE, Chaired 1 Session, New Orleans, Louisiana, February 3-7, 1984.
- \* Session Co-Chairman, "Manufacturing Systems Session," 1985 ASME Energy-sources Technology Conference and Exhibition, Dallas, Texas, February 18-21, 1985.
- \* Symposium Chairman, Industrial Pollution Control Symposium, 8th Annual ETCE, Chaired 1 Session, Dallas, Texas, February 18-21, 1985.
- \* Technical Program Committee, 4th ASME/AIAA Thermophysics and Heat Transfer Conference, Boston, Mass., June 2-4, 1986.
- \* Session Chairman/Discussion Leader, "The Role of Communications in Mechanical Engineering Curricula," ASME Education Conference, Chicago, IL, July 23-25, 1986.
- \* Session Chairman, "Thermal Management of Electronic Equipment," 6th ASME/IEPS International Electronic Packaging Conference, San Diego, California, November 17-19, 1986.
- \* Co-Chairman, Hydrocarbon Processing Symposium, 1987 ASME Energy-sources Technology Conference and Exhibition, Dallas, Texas, February 15-19, 1987.
- \* Vice-Chairman, "Convective Heat Transfer in Non-Newtonian Fluids," 1987 National Heat Transfer Conference, Pittsburgh, Pennsylvania, August 9-12, 1987.
- \* Session Chairman, "Recent Developments in Thermal Contact Conductance," 1987 National Heat Transfer Conference, Pittsburgh, Pennsylvania, August 9-12, 1987.
- \* Session Chairman, "Heat Pipes," 1987 ASME Winter Annual Meeting, Boston MA, December 13-18, 1987.
- \* Conference Chairman, Petroleum Division Fall Workshop, September 13-18, 1987, Houston, Texas.
- \* Session Chairman, "Natural Circulation: Flow in Porous Media," ASME Winter Annual Meeting, December 13-18, 1987.
- \* Panelist, "Panel on Research in Thermal Control of Microelectronics," ASME Winter Annual Meeting, Boston, MA, December 13-18, 1987.
- \* Technical Program Committee, Intersociety Conference on Thermal Phenomena in Electronic Components, May 11-13, 1988, Los Angeles, California.
- \* Session Chairman, "Heat Pipe Mechanisms in Electronic Equipment," National Heat Transfer Conference, Houston, July 24-27, 1988.
- \* Session Co-Chairman, "Space Related Heat Transfer," National Heat Transfer Conference, Houston, Texas, July 24-27, 1988.
- \* Session Co-Chairman, "Transient Heat Conduction," ASME Winter Annual Meeting, Chicago, Ill, November 28-December 2, 1988.
- \* Session Chairman, "Direct Contact Heat Transfer in Electronic Cooling," National Heat Transfer Conference, Philadelphia, PA, August 6-9, 1989.
- \* Session Chairman, "Fundamentals of Conduction with Contact Resistance," 1989 ASME Winter Annual Meeting, San Francisco, CA, December 10-15, 1989.
- \* Technical Program Chairman, 1990 Energy-sources Technology Conference and Exhibition, New Orleans, LA, January 14-18, 1990.
- \* Technical Program Chairman, 1990 Intersociety Conference on Thermal Phenomena in Electronic Systems, Las Vegas, Nevada, May 23-25, 1990.
- \* Conference Chairman, 1991 Energy-sources Technology Conference and Exhibition, Houston, TX, January 20-23, 1991.
- \* Session Co-Chairman, "Condensation," ASME/JSME Thermal Engineering Joint Conference, Reno, NV, March 17-22, 1991.
- \* Session Chairman, "Fundamental Problems in Heat Pipes," 1991 National Heat Transfer Conference, Minneapolis, MN, July 28-31, 1991.
- \* Best Paper Awards Committee, 1991 National Heat Transfer Conference, Minneapolis, MN, July 28-31, 1991.
- \* Session Chairman, "Fundamentals of Phase Change: Boiling and Condensation," 1991 Winter Annual Meeting, Atlanta, GA, December 1-6, 1991.



- \* Session Chairman, "Thermal Modeling of Computer Systems and Peripheral Equipment," 1992 Intersociety Conference on Thermal Phenomena in Electronic Systems, Austin, Texas, February 5-7, 1992.
- \* Session Chairman, "Fundamentals of Conduction," 1992 National Heat Transfer Conference, San Diego, CA, August 9-12, 1992.
- \* Session Chairman, "Direct and Indirect Cooling of Electronics," 1992 National Heat Transfer Conference, San Diego, CA, August 9-12, 1992.
- \* Session Chairman, "Microscale Heat and Mass Transfer I and II," 1992 Winter Annual Meeting, Anaheim, CA, November 8-13, 1992.
- \* Session Chairman, "Heat Transfer in Microscales," 1993 ASME Winter Annual Meeting, New Orleans, LA, November 28-December 3, 1993.
- \* Session Chairman, "Micro Heat Transfer," 1994 ASME Winter Annual Meeting, Chicago, IL, November 13-18, 1993.
- \* Session Co-Chairman, Two-phase Heat Transfer," ASME/JSME Thermal Engineering Joint Conference, Maui, Hawaii, March 20, 1995.
- \* Session Co-Chairman, Conduction Heat Transfer III," ASME/JSME Thermal Engineering Joint Conference, Maui, Hawaii, March 21, 1995.
- \* U.S. Program Representative, International Organizing Committee, 4th International Symposium on Heat Transfer and Exhibition, Beijing, China, October 7-11, 1996.
- \* Technical Program Chairman, 1996 International Mechanical Engineers' Conference and Exhibition, Atlanta, GA, November 12-17, 1996.

#### **AIAA - American Institute of Aeronautics and Astronautics, (Associate Fellow)**

- \* AIAA Thermophysics Conference Committee, Member, January 1, 1989 - December 31, 1992.
- \* AIAA Thermophysics Committee, Member, January 1, 1986-December 31, 1989; January 1, 1992-December 31, 1994.
- \* AIAA Representative to the National Heat Transfer Conference, 1990-1993.
- \* Peer Reviewer, *AIAA Journal*, *AIAA J. of Thermophysics and Heat Transfer*, *AIAA J. of Spacecraft and Rockets*.

#### **AIAA National Conference Activities**

- \* Technical Program Committee, 19th Thermophysics Conference, Snowmass, Colorado, June 1984.
- \* Session Chairman, "Heat Pipe Advances and Applications," 19th Thermophysics Conference, Snowmass, Colorado, June 1984.
- \* Technical Program Committee, 20th Thermophysics Conference, Williamsburg, Virginia, June 19-21, 1985.
- \* Session Chairman, "Heat Pipe Modeling and Analysis," 20th Thermophysics Conference," Williamsburg, Virginia, June 19-21, 1985.
- \* Session Co-Chairman, "Two Phase Heat Transfer Systems: Cold Plates," 20th Thermophysics Conference," Williamsburg, Virginia, June 19-21, 1985.
- \* Session Chairman, "Heat Pipes: Designs and Applications," 4th ASME/AIAA Thermophysics and Heat Transfer Conference, Boston, Mass., June 2-4, 1986.
- \* Technical Program Committee, 22nd Thermophysics Conference, Honolulu, Hawaii, June 8-10, 1987.
- \* Session Chairman, "Heat Pipes in Space: Applications," 22nd Thermophysics Conference, Honolulu, Hawaii, June 8-10, 1987.
- \* Session Co-Chairman, "Heat Transfer in Gas Turbines," AIAA Aerospace Sciences Meeting, Reno, Nevada, January 11-14, 1987.
- \* Session Chairman, "Heat Pipes II," AIAA Thermophysics, Plasmadynamics and Lasers Conference, San Antonio, Texas, June 27-20, 1988.
- \* Technical Program Chairman (Thermophysics), 27th Aerospace Sciences Conference, Reno, Nevada, January 9-12, 1989.
- \* Session Chairman, "Two-Phase Flows and Thermal Analysis," 24th Thermophysics Conference," Buffalo, NY, June 12-14, 1989.



- \* Session Chairman, "Heat Pipes," AIAA Aerospace Sciences Meeting, Reno, Nevada, January 8-11, 1990.
- \* Session Chairman, "Heat Pipes in Spacecraft Applications," 5th Joint AIAA/ASME Thermophysics and Heat Transfer Conference, Seattle, WA, June 18-20, 1990.
- \* Session Chairman, "Topics in Thermophysics," 1991 Aerospace Sciences Conference, Reno, Nevada, January 7-10, 1991.
- \* Session Chairman, "Spacecraft Thermal Control Techniques," 25th Thermophysics Conference, Honolulu, Hawaii, June 24-26, 1991.
- \* Session Chairman, "Fundamentals of Phase Change," 1991 National Heat Transfer Conference, Minneapolis, MN, July 28-31, 1991.
- \* Session Chairman, "Convection Heat Transfer," 1992 Aerospace Sciences Conference, Reno, Nevada, January 6-9, 1992.
- \* Session Chairman, "Phase Change Heat Transfer," ASME/AICHE/AIAA National Heat Transfer Conference, Minneapolis, MN, July 28-31, 1991.
- \* Session Chairman, "Aerothermal Heating," ASME/AICHE/AIAA National Heat Transfer Conference, San Diego, CA, August 9-12, 1992.
- \* Session Chairman, "Heat Pipe Experimental Results - I," 26th Thermophysics Conference, Nashville, TN, July 6-8, 1992.
- \* Session Chairman, "Topics in Thermophysics," 32nd AIAA Aerospace Sciences Meeting, Reno, NV, January 11-14, 1993.

#### **ASEE - American Society for Engineering Education, (Member)**

- \* Wickenden Best Paper Award Committee, 1988-90.
- \* Awards Chairman, Gulf-Southwest Section, 1987-88.
- \* Peer Reviewer, *Journal of Engineering Technology*, 1984-85.
- \* Participated in the 1981 and 1982 NASA/ASEE Research Fellowship Program at NASA Johnson Space Center, Houston Texas.

#### **ABET - Accreditation Board for Engineering and Technology**

- \* Technology Accreditation Commission, Ad hoc Visitor - Mechanical Engineering Technology, June 1985-June 1991, Nine Accreditation visits made.
- \* Engineering Accreditation Commission, Ad hoc Visitor - Mechanical Engineering, August 1991-Present.

#### **AIHTC - Assembly for International Heat Transfer Conferences**

- \* Secretary, US Scientific Committee, 1987-1990.
- \* Session Chairman, "Energy, Urban Processes," 9th International Heat Transfer Conference, Jerusalem, Israel, August 22, 1990.

#### **Short Courses**

- \* Short Course on "Heat Pipe Thermal Control in Electronics" in conjunction with the Intersociety Conference on Thermal Phenomena in Electrical and Electronic Systems, Los Angeles, CA, May 11, 1988.
- \* Short Course on "Heat Pipe Thermal Control in Electronics" in conjunction with the 2nd Intersociety Conference on Thermal Phenomena in Electrical and Electronic Systems, Las Vegas, NV, May 23, 1990.
- \* Short Course on "Advances in Thermal Modeling of Electronic Components and Systems," in conjunction with the 3rd Intersociety Conference on Thermal Phenomena in Electronic Systems, Austin, Texas, February 5, 1992.
- \* Short Course on "Fundamentals and Recent Developments in Heat Pipes," through the ASME Professional Development Program, taught in conjunction with the 1992 National Heat Transfer Conference, San Diego, CA, August 8-9, 1992.



- \* Short Course on "Heat Pipe Heat Exchangers in the Aerospace Industry," taught in conjunction with the First International Conference on Aerospace Heat Exchanger Technology, Palo Alto, CA, February 13-14, 1993.
- \* Short Course on "Fundamentals and Recent Developments in Heat Pipes," through the ASME Professional Development Program, taught in conjunction with the 1993 National Heat Transfer Conference, Atlanta, GA, August 7-8, 1993.
- \* Short Course on "Heat Pipes Applications in the Gas Turbine Industry," through the Texas Engineering Extension Service, Allison Gas Turbine Division, Indianapolis, IN, December 2-3, 1993.
- \* Short Course on "Fundamentals and Recent Developments in Heat Pipes," through the ASME Professional Development Program, Denver, CO, August 22-23, 1994.
- \* ASME Video Program, *Professional Engineers Short Course Review - Heat Transfer/Heat Exchangers*, Prepared and presented on December 19-20, 1994, two hours in length.
- \* Short Course on "Fundamentals and Recent Developments in Heat Pipes," through the ASME Professional Development Program, Portland, OR, August 9-10, 1996.

#### **Other Professional Society Activities**

- \* Society of Automotive Engineers, Executive Committee-SC9 Spacecraft Thermal Control, February 1983-January 1987.
- \* International Heat Pipe Conference Committee, Editorial Board and Session Chairman, 5th International Heat Pipe Conference, Tsukuba, Japan, May 1984.
- \* Appointed to NASA-Johnson Space Center, Thermal Test Bed Advisory Panel, to review work done in conjunction with Work Package IV, January 1986-January 1989.
- \* 7th International Heat Pipe Conference Committee, Editorial Board and Session Chairman, 7th International Heat Pipe Conference, Minsk, USSR, May 1990.
- \* Institute of Electrical and Electronic Engineers-IEEE, Thermal Management Technical Committee (TC-9), January 1990-January 1992.
- \* National Science Foundation (NSF) Small Business Innovative Research (SBIR) Review Panel, Washington, D.C., September 1991.
- \* 8th International Heat Pipe Conference Editorial Board and Session Chairman, 8th International Heat Pipe Conference, Beijing, China, September 1992.
- \* 9th International Heat Pipe Conference Committee, Editorial Board and Session Chairman, 9th International Heat Pipe Conference, Albuquerque, NM, May 1-5, 1995.

#### **RESEARCH AND RELATED ACTIVITIES:**

##### **Funded Research Projects**

- \* "Computer Modeling and Simulation of Dual Passage Heat Pipes," NASA-JSC, Houston, Texas, G. P. Peterson (PI), May 15, 1982-January 15, 1983, \$6,000.
- \* "Bearing Carrier Preconditioning," Lufkin Industries, Lufkin, Texas, G. P. Peterson (Co-PI) and K. K. Gowdy (Co-PI), July 18, 1983 - February 28, 1984, \$7,437.
- \* "Joint Studies Program, IBM/TAMU," IBM-Austin, Texas, G. P. Peterson (PI), January 1, 1984-December 31, 1986, \$150,000.
- \* "Analytical and Experimental Determination of Boiling, Dryout and Wicking Limitations of Heat Pipes," NASA-JSC, Houston, Texas, G. P. Peterson (PI), September 1, 1984-December 31, 1984, \$10,800.
- \* "Analytical Development and Computer Modeling of a Bellows Type Heat Pipe for the Cooling of Electronic Components," IBM-E. Fishkill, New York, G. P. Peterson (PI), October 1, 1984-August 31, 1985, \$14,310.
- \* "Assembly of Laminated Magnets for a Superferric Supercollider," Houston Area Research Center, G. P. Peterson (PI) and T. Sastri (Co-PI), The Woodlands, Texas, September 1, 1984-August 31, 1984, \$12,844.
- \* "Low Temperature Design Using Cryogenic Heat Pipes," Eastman Kodak Company, Rochester, New York, G. P. Peterson (PI), October 14, 1985-January 31, 1986, \$7,500.



- \* "Contact Conductance Between Spherical Particles in Packed Beds," University Minigrant, G. P. Peterson (PI), December 16, 1985-January 1, 1987, \$400.
- \* "Liquid-Vapor Flow Regimes in Microgravity Environments," Texas A&M Engineering Excellence Program, G. P. Peterson (PI), January 16, 1986-December 31, 1986, \$16,707.
- \* "Computer Modeling of a Modified Artery-Cryogenic Heat Pipe," Eastman Kodak Company, Rochester, New York, G. P. Peterson (PI), February 1, 1986-January 1, 1988, \$26,574.
- \* "Testing and Evaluation of a Bellows Type Heat Pipe for the Cooling of Electronic Components," IBM-E. Fishkill, New York, G. P. Peterson (PI), March 1, 1986-February 28, 1988, \$77,695.
- \* "Conceptual Design for a Food Production, Wastewater Processing and Gas Regeneration Module," NASA-JSC, Houston, Texas, G. P. Peterson (Co-PI), C. Patterson (Co-PI) and P. Sharpe (Co-PI), May 19, 1986-May 1, 1987, \$80,669.
- \* "Thermal Test Bed System Analysis," Rockwell International-Space Systems Division, Houston, Texas, G. P. Peterson (PI), May 30, 1986-January 31, 1987, \$4,400.
- \* "Effective Thermal Conductivity of Laminated and Composite Materials for Electric Discharge Machining," AGIE Corporation, Locarno, Switzerland, G. P. Peterson (Co-PI) and L. S. Fletcher (Co-PI), June 1, 1986-May 31, 1987, \$24,784.
- \* "Thermal Test Bed System Analysis-Phase II," Rockwell International-Space Systems Division, Houston, Texas G. P. Peterson (PI), July 1, 1987-June 30, 1988, \$3,425.
- \* "Modification and Refurbishment of the General Electric Integrated Waste and Water Management System," NASA-JSC, Houston, Texas, G. P. Peterson (Co-PI) and W. M. Moses (Co-PI), July 1, 1987-December 31, 1987, \$50,000.
- \* "Conceptual Design for a Food Production, Wastewater Processing and Gas Regeneration Module-Phase II," NASA-JSC, Houston, Texas, O. W. Nicks (PI) and G. P. Peterson (Co-PI) and W. M. Moses (Co-PI), September 1, 1987-March 31, 1988, \$98,000.
- \* "International Enhancement Grant - Enhancing the Exchange of Faculty and Students Between Texas A&M University and the Ruhr University of Bochum," Texas Office of International Coordination, G. P. Peterson (PI), January 1, 1988-May 31, 1988, \$600.
- \* "Improving the Thermal Contact Conductance through the Use of Metallic Coatings," NASA-JSC, Houston, Texas, G. P. Peterson (PI) and L.S. Fletcher (Co-PI), February 1, 1988-January 31, 1989, \$44,726.
- \* "Thermal Contact Conductance and Conductivity of Anodized Coatings," IBM Corporation, Austin, Texas, G. P. Peterson (Co-PI) and L. S. Fletcher (Co-PI), April 1, 1988-January 1, 1989, \$10,000.
- \* "Steady-state and Transient Analysis of Miniature Heat Pipes," Wright Patterson AFB, Dayton, Ohio, G. P. Peterson (PI), May 1, 1988-February 24, 1990, \$120,000.
- \* "Investigations of the Boiling and Entrainment Limits in Heat Pipes Through Flow Visualization," NASA ODAA, Washington D.C., G. P. Peterson (PI), June 1, 1988-August 31, 1989, \$59,100.
- \* "Improving the Performance and Reliability of Microelectronic Devices Through Enhanced Thermal Control," Texas Advanced Technology Program, Austin, Texas, L. S. Fletcher (Co-PI) and G. P. Peterson (Co-PI), June 1, 1988-August 31, 1990, \$218,500.
- \* "Development of an Integrated Micro Heat Pipe for Thermal Control of Microelectronic Devices," NASA ODAA, Washington D.C., G. P. Peterson (PI), June 1, 1989-August 31, 1990, \$50,000.
- \* "Thermal Contact Conductance of Finned Interfaces," Foster-Miller Inc., Waltham, MA, G. P. Peterson (Co-PI) and L. S. Fletcher (Co-PI), May 1- June 30, 1989, \$1,500.
- \* "New Power Generation Subsystems for Satellites," Naval Research Labs, Washington, D.C., A. J. Appleby (PI) and G. P. Peterson (Co-PI), July 1, 1989 - December 31, 1989, \$20,092.
- \* "Determination of the Thermal Contact Conductance and Adhesion Characteristics of Coldplate Thermal Test Pads," Rockwell International, Canoga Park, CA, G. P. Peterson (PI) and L. S. Fletcher (Co-PI), July 1, 1989 - May 31, 1990, \$98,000.
- \* "Numerical Investigation of Entrainment In Heat Pipes," Houston Area Research Center, The Woodlands, TX, G. P. Peterson (PI), August 17, 1989 - December 31, 1989, \$80,000.
- \* "Incorporation of Micro Heat Pipes into Semiconductor Devices," Texas Advanced Technology Program, Austin, Texas, G. P. Peterson (PI) and M. H. Weichold (Co-PI), Jan. 1, 1990-December 31, 1992, \$152,480.
- \* "Analytical Investigation of the Frozen Startup Characteristics of High Capacity Heat Pipes," NASA-Code C, Washington, D.C., G. P. Peterson (PI), January 1, 1990-December 31, 1990, \$160,000.



- \* "Determination of the Thermal Contact Conductance of Diamond Coated Thermal Test Pads," EER Systems, Seabrook, MA, G. P. Peterson (PI) and L. S. Fletcher (Co-PI), April 1, 1990 - July 30, 1990, \$24,000.
- \* "Investigation of Entrainment in Capillary Pumped Devices," National Science Foundation, Washington, D.C., G. P. Peterson (Co-PI) and K. D. Kihm (Co-PI), August 1, 1990 - July 31, 1993, \$149,597.
- \* "Development of a Generalized Model for High Capacity External Artery Heat Pipes," McDonnell-Douglas Corporation, Houston, TX, G. P. Peterson (PI), August 1, 1990 - October 1, 1990, \$12,540.
- \* "Micro Heat Pipe Construction Using Anisotropic Etchants," NASA ODAA, Washington D.C., G. P. Peterson (PI), November 1, 1990 - December 31, 1992, \$40,000.
- \* "Investigation of the Frozen Startup Characteristics of Two High Capacity Heat Pipes in Microgravity: A Shuttle Flight Experiment," NASA-Code C, Washington, D.C., G. P. Peterson (PI), January 1, 1991-December 31, 1992, \$200,000.
- \* "Measurement of the Thermal Conductivity and Contact Conductance of Thermosetting Encapsulated Mold Compounds," IBM Corporation, Endicott, NY, G. P. Peterson (PI) and L. S. Fletcher (Co-PI), January 1, 1991 - June 31, 1991, \$10,000.
- \* "An Investigation of Thermal Enhancement Techniques for Navy SEM Guide Ribs and Card Rails," DOD/DON Naval Weapons Support Center, Crane, IN, L. S. Fletcher (PI) and G. P. Peterson (Co-PI), December 26, 1990 - December 31, 1993, \$354,730.
- \* "Rewetting of Hot Grooved Surfaces," NASA-JSC, Houston, Texas, G. P. Peterson (PI), April 1, 1991-March 30, 1993, \$59,400.
- \* "Microgravity Testing and Evaluation of the Transient Operating Characteristics of Miniature Heat Pipes: A Shuttle Flight Experiment," NASA-Code C, Washington, D.C., G. P. Peterson (PI), June 1, 1991 - May 31, 1992, \$28,440.
- \* "Development of a Numerical Model to Predict the Frozen Startup Characteristics of External Artery Heat Pipes," NASA-Code C, Washington, D.C., G. P. Peterson (PI), Jan. 1, 1992-December 31, 1992, \$40,000.
- \* "Data Acquisition for Investigation of the Frozen Startup Characteristics of Heat Pipes," NASA-Code C, Washington, D.C., G. P. Peterson (PI), June 1, 1992-May 31, 1995, \$33,500.
- \* "Performance Enhancement of Large Scale Thermosyphons," ABB Preheater Inc., Wellsville, N.Y., G. P. Peterson (PI), November 1, 1992-July 31, 1993, \$18,000.
- \* "Multicomponent Flow Boiling," Heat Transfer Research Inc., College Station, TX, G. P. Peterson (PI), January 15, 1993-May 31, 1993, \$9,418.
- \* "Performance Evaluation of Micro Heat Pipes Operating at Cryogenic Temperatures," Wright Research and Development Center, Dayton, Ohio, G. P. Peterson (PI), January 1, 1993-December 31, 1993, \$45,000.
- \* "Convective Flow Boiling of Multicomponent Mixtures," Center for Energy and Mineral Resources (CEMR), TAMU, College Station, TX, G. P. Peterson (PI), September 1, 1993-August 31, 1994, \$18,800.
- \* "Thermal Transport and Thermal Processing - Program Director," National Science Foundation, Washington, D.C., G. P. Peterson (PI), August 1, 1993 - July 31, 1994, \$144,120.
- \* "Data Acquisition System Design for the COMET Spacecraft," NASA-Code C, Washington, D.C., G. P. Peterson (PI), September 1, 1993-August 31, 1994, \$60,000.
- \* "Ultra Heat Spreading Substrates: Micro Heat Pipes Within Silicon Substrates," Texas Advanced Technology Program, Austin, Texas, G. P. Peterson (PI), January 1, 1994-December 31, 1996, \$217,725.
- \* "COMET Flight Evaluation of the Frozen Startup Characteristics of Heat Pipes," NASA-Code C, Washington, D.C., G. P. Peterson (PI), January 1, 1995-December 31, 1996, \$50,000.

#### **Equipment Grants:**

- \* "Thermal Conductivity Measurement Facility," DOE Equipment Grant, L. S. Fletcher (Co-PI) and G. P. Peterson (Co-PI), August 19, 1988, \$20,544.
- \* "High Vacuum Test Chamber," DOE Equipment Grant, G. P. Peterson (Co-PI) and L. S. Fletcher (Co-PI), December 12, 1988, \$19,620.
- \* "Vacuum Pumping System," DOE Equipment Grant, G. P. Peterson (Co-PI) and L. S. Fletcher (Co-PI), July 6, 1989, \$23,843.
- \* "Surface Measurement Facility," DOE Equipment Grant, L. S. Fletcher (Co-PI) and G. P. Peterson (Co-PI), August 19, 1989, \$50,300.



### **TEES Summer Undergraduate Research Fellowships:**

- \* "External Memory Address and Palletizing Using a Unimate 2005P," Texas Engineering Experiment Station Undergraduate Research Fellowship, M. Anderson, student and G. P. Peterson, Faculty Sponsor, competitive and subject to peer review, May 1983, \$2,000.
- \* "Advanced Scanning Architecture," Texas Engineering Experiment Station Undergraduate Research Fellowship, A. C. Hunt, student and G. P. Peterson, Faculty Sponsor, competitive and subject to peer review, May 1984, \$2,000.
- \* "Testing and Evaluation of a Flexible Heat Pipe for the Cooling of Electronic Components," Texas Engineering Experiment Station Undergraduate Research Fellowship, B. R. Babin, student and G. P. Peterson, Faculty Sponsor, competitive and subject to peer review, May 1987, \$2,000.

### **HONORS AND AWARDS:**

#### **Honor Societies**

- \* Pi Tau Sigma, Mechanical Engineering Honor Society, 1990 - present.
- \* Sigma XI, National Research Society, 1988 - present.
- \* Phi Kappa Phi, National Honor Society, 1989 - present.

#### **Fellowships**

- \* NASA/ASEE Summer Faculty Research Fellowship, NASA-Johnson Space Center, Houston, Texas, 1981.
- \* NASA/ASEE Summer Faculty Research Fellowship, NASA-Johnson Space Center, Houston, Texas, 1982.
- \* Key Professor, Fluid Power Educational Foundation, Milwaukee, Wisconsin, 1982.
- \* TRW/SME Travel Fellowship, February 1983.

#### **Teaching Awards**

- \* Exxon Award for Excellence in Teaching and Research, December 18, 1987.
- \* J. G. H. Thompson Award for Excellence in Teaching, awarded by Pi Tau Sigma, May 2, 1988.
- \* College of Engineering Outstanding Teaching Award, Texas A&M University Association of Former Students, September 14, 1990.
- \* 1991-92 Teacher/Scholar Award, Texas A&M University Honors Program, May 5, 1992.
- \* 1993 Texas A&M University Faculty Distinguished Achievement Award for Teaching, TAMU Association of Former Students, May 6, 1993.

#### **National Awards**

- \* ASME Ralph James Award for Outstanding Contribution to the Petroleum Division, February 13, 1986.
- \* ASEE/DOW Chemical Corporation-Outstanding Young Faculty Award, June 21, 1988.
- \* NASA Innovation Award, *Micro Heat Pipe Panels*, (NASA), October 3, 1990.
- \* AIAA Associate Fellow, 1991.
- \* ASME Gustus L. Larson Memorial Award, November 11, 1992.
- \* ASME Petroleum Division-Past Chairman's Award, February 2, 1993.
- \* ASME Fellow, 1993.
- \* ASME O. L. "Andy" Lewis Award, January 25, 1994.
- \* Certificate for Exemplary Service to the *ASME J. Heat Transfer*, July 12, 1994.
- \* NASA Innovation Award, *Micro Heat Pipe Panels and Method for Producing Same*, (NASA), March 29, 1995.

#### **Presentation/Paper Awards**

- \* Award for Outstanding Presentation in Poster Format, 8th International Heat Transfer Conference, August 17-22, 1986, San Francisco, CA, *Thermal Contact Conductance Between Spherical Particles and Flat Surfaces*, by G. P. Peterson and L. S. Fletcher.
- \* IEEE Outstanding Paper Award, 10th Symposium on Electronic Materials Processing and Characteristics, June 3-4, 1991, Richardson, TX, *Construction Processes for Vapor Deposited Micro Heat Pipes*, by A. K. Mallik, G. P. Peterson and M. H. Weichold.



- \* AIAA American Institute of Aeronautics and Astronautics, "1990 Best Paper in Thermophysics Award," June 24, 1991, *Experimental Investigation of the Transient Behavior of Micro Heat Pipes*, by D. Wu, G. P. Peterson and W. S. Chang.

#### Other Awards

- \* Texas Engineering Experiment Station - Select Young Fellow, 1986-87.
- \* Texas Engineering Experiment Station - Research Fellow, 1988-89.
- \* Texas Engineering Experiment Station - Senior Research Fellow, 1989-90.

#### PATENTS AND INVENTIONS:

- \* Invention Disclosure Filed, "Gripping Device for Board-like Work Pieces," May 15, 1985.
- \* Invention Disclosure Filed, "Automatic Feed Mechanism for a Pneumatic Screwdriver," May 31, 1986.
- \* Invention Disclosure Filed, "A Flexible Heat Pipe Catheter," June 22, 1992.
- \* Patent Issued (U.S.), "Bellows Heat Pipe for the Thermal Control of Electronic Devices," (Joint with S. Oktay, IBM Corporation), U.S. Patent No. 4,951,740, issued August 28, 1990.
- \* Patent Issued (U.S.), "Heat Transfer Cylinder Dryer," (Joint with L. S. Fletcher), U.S. Patent No. 5,119,886, issued June 9, 1992.
- \* Patent Issued (U.S.), "Vapor Deposited Micro Heat Pipe," (Joint with M. H. Weichold, TAMU), U.S. Patent No. 5,179,043, issued January 12, 1993.
- \* Patent Issued (U.S.), "A Micro Heat Pipe Catheter for Local Tumor Hyperthermia," (Joint with L. S. Fletcher), U.S. Patent No. 5,190,539, issued March 2, 1993.
- \* Patent Issued, "Temperature Control Mechanisms for a Micro Heat Pipe Catheter," (Joint with L. S. Fletcher), U.S. Patent No. 5,417,686, issued May 23, 1995.
- \* Patent Pending, "Treatment Method Using a Micro Heat Pipe Catheter," U.S. Patent Application Serial No. 08/215,276, (Joint with L. S. Fletcher), February 8, 1993.
- \* Patent Pending, "Cascaded, Variable Cross-section Heat Pipe," (Joint with S. Oktay, IBM Corporation), June 1, 1994.
- \* Patent Pending "Micro Heat Pipe Panels and Method for Producing Same," NASA No. 141501-1-CU, (Joint with C. Camarda, NASA Langley), October 1, 1994.

#### INVITED LECTURES:

- \* "Factors Affecting the Orientation of Fluids in Heat Pipes and the Effect on Operation," NASA Johnson Space Center, Crew Systems Division, Houston, Texas, August 12, 1981.
- \* Evaluation of Two-Phase Thermal Control Systems for Low Orbit Spacecraft," NASA Johnson Space Center, Advanced Thermal Systems Group, Houston, Texas, July 23, 1982.
- \* "Recent Advances in Pumping Devices for Two-Phase Heat Transfer Systems in Low Orbiting Spacecraft," Summer Faculty Fellowship Program, NASA Johnson Space Center, Houston, Texas, August 6, 1982.
- \* "Computer Modeling of a Monogroove Heat Pipe," NASA Johnson Space Center, Crew Systems Division, Houston, Texas, January 13, 1982.
- \* "Advances in Space Radiator Technology," Houston L-5 Society, Houston, Texas, December 8, 1983.
- \* "Determination of Heat Pipe Priming in Micro-Gravity," Notre Dame University, Notre Dame, Indiana, February 4, 1985.
- \* "Fluid Flow in Reduced Gravity," Iowa State University, Ames, Iowa, March 6, 1985.
- \* "Introduction to Heat Pipe Cooling of Electronic Components," IBM Corporation, E. Fishkill, New York, May 30, 1985.
- \* "A Review of Cryogenic Heat Pipes for Thermal Control of Optical Surfaces," Eastman Kodak Company, Rochester, New York, September 20, 1986.
- \* "Transient Modeling of Fluid Location in Heat Pipes," Los Alamos National Laboratory, Los Alamos, New Mexico, March 4, 1986.
- \* "Thermal Control Mechanisms-Physical Modeling of Electronic Packages," University of Tennessee, Knoxville, Tennessee, January 23, 1987.



- \* "Contact Conductance of Thin Metallic Foils," NASA Johnson Space Center, Crew Systems Division, Houston, Texas, June 30, 1987.
- \* "Thermal Contact Conductance in Electronic Packages," Auburn University, Auburn, Alabama, September 18, 1987.
- \* "Two-phase Thermal Control of High Power Semiconductor Devices," The Ruhr University of Bochum, Bochum, West Germany, March 8, 1988.
- \* "Experimental Investigations to Determine the Significance of Thermal Contact Resistance in Electronic Packages," Rice University-Mechanical Engineering Invited Seminar Series, Houston, Texas, April 15, 1988.
- \* "Development and Testing of Micro Heat Pipes for Spacecraft Thermal Control," NASA-Goddard Two-Phase Fluid Behavior in Space Workshop, Ocean City Maryland, June 13, 1988.
- \* "Heat Pipes in the Thermal Control of Electronic Components," University of Tsukuba, Japan, Visiting Scientist Exchange Program, September 12, 1988.
- \* "An Overview of the Space Station Thermal Management System," National Space Development Agency of Japan - Workshop for Future Space Development, Tsukuba, Japan, September 15-16, 1988.
- \* "An Introduction to Heat Pipe Applications in Electronic Thermal Control," IBM Corporation, IBM-Austin, Texas, September 27, 1988.
- \* "Quantification of the Thermal Contact Conductance in Electronic Packages," Old Dominion University, Norfolk, Virginia, October 21, 1988.
- \* "Application of Heat Pipes in the Thermal Control of Aircraft Leading Edges," NASA-Langley, Hampton, VA, October 20, 1988.
- \* "Effect of Metallic Coatings on the Thermal Contact Conductance of Turned Surfaces," NASA Johnson Space Center, Crew Systems Division, Houston, Texas, May 30, 1989.
- \* "Experimental and Analytical Investigation of Micro Heat Pipes," Wright-Patterson Air Force Base, Wright Patterson, Ohio, September 25, 1989.
- \* "A Summary of Heat Pipe Research at Texas A&M University," NASA Commercialization of Space Power Review, NASA Johnson Space Center, Houston, TX, October 24, 1989.
- \* "Thermal Control in Spacecraft Systems," NASA Workshop on Technology for Space Station Evolution, Dallas, TX, January 16-19, 1990.
- \* "Fluid Behavior in a Weightless Environment," Charles A. Rosenberger Lecture, Statewide JETS Conference, TAMU, College Station, TX, March 9, 1990.
- \* "An Overview of Heat Pipe Research at Texas A&M University," McDonnell-Douglas Corp., Houston, TX, June 28, 1990.
- \* "Micro Heat Pipes for the Thermal Control of Electronic Devices," Texas Instruments, Dallas, TX, July 23, 1990.
- \* "Analytical and Experimental Investigation of Heat Pipe Freeze/Thaw Characteristics," Lockheed Missiles and Space Company, San Jose, CA, September 11, 1990.
- \* "Heat Transfer Issues in the Thermal Control of Electronic Devices and Equipment," IBM Endicott, Endicott, NY, October 30, 1990.
- \* "Investigation of the Freeze/Thaw Characteristics of Heat Pipes in Reduced Gravity Environments," 3rd Annual Review and Planning Conference for the Commercialization of Space Power, NASA-ODAA, College Station, TX, November 5, 1990.
- \* "An Overview of Phase Change Thermal Control Mechanisms for Electronic Equipment," Boeing Defense & Space group, Boeing, Seattle, WA, June 7, 1991.
- \* "Cooling with Heat Pipes Smaller than a Human Hair," San Antonio ASME Section, San Antonio, TX, September 18, 1991.
- \* "An Overview of Micro Heat Pipe Research: Theory and Applications," University of Houston Visiting Lecture Series, Houston, TX, October 17, 1991.
- \* "Micro Heat Pipe Theory and Operation," Worcester Polytechnic Institute, Worcester, MA, March 9, 1992.
- \* "Micro Heat Pipes in Electronics Applications," University of Utah, Center for Engineering Design, Salt Lake City, Utah, March 16, 1992.
- \* "Thermal Control of IR Detector Windows," LTV Dallas, Texas, April 28, 1992.
- \* "Heat Pipes in the Thermal Control of Electronic Equipment," Bell Northern Research Labs, Ottawa, Ontario, Canada, May 28, 1992.



- \* "Heat Pipes Constructed as a Part of Computer Chassis to Dissipate Heat from PC's," Sun Microsystems, San Jose, CA, June 22, 1992.
- \* "Design and Development of Micro Heat Pipes," Tsinghua University, Beijing, China, September 14, 1992.
- \* "An Overview of Micro Heat Pipes and their Applications," Korean Institute of Engineering and Technology, Seoul, Korea, September 23 & 24, 1992.
- \* "On the Use of Small Heat Pipes in the Thermal Control of Electronic Equipment," National Science Foundation, Washington D.C., November 18, 1992.
- \* "Heat Pipes: Applications and Fundamental Operating Principles," Industrial Technology Research Institute, Hsinchu, Taiwan, R.O.C., December 8-12, 1992.
- \* "Micro Heat Pipe Applications in Electronic Thermal Control," Bell Northern Research Labs, Atlanta, GA, August 12, 1993.
- \* "Heat Pipe Application in Electronic Equipment," Invited Lecture, IEEE Intersociety Conference on Thermal Phenomena in Electronic Equipment, Washington, D.C., May 4, 1994.
- \* "Microscale Heat Pipes in Silicon Wafers," Jet Propulsion Laboratory, Pasadena, CA, May 25, 1994, Pasadena, CA.
- \* "Molecular and Micro-scale Heat Transfer," Invited Lecture, ASME/JSME Thermal Engineering Joint Conference, Maui, Hawaii, March 20, 1995.

August 1, 1995



THE TAU BETA PI ASSOCIATION, INCORPORATED

NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES

FOUNDED



1885

508 DOUGHERTY ENGINEERING HALL, UTK  
P.O. BOX 2697, KNOXVILLE, TENNESSEE 37901-2697  
423/546-4578, FAX: 423/546-4579, E-MAIL: tbp@tbp.org

JAMES D. FROULA, P.E.  
SECRETARY-TREASURER

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

ADDENDUM

ELIGIBILITY ACKNOWLEDGEMENT OF CANDIDATES FOR ELECTION

To the President of the  
Kansas Gamma

Date October 11, 1995

Chapter:

\*\*

Your Report of Eligibility has been received, thank you.

\*\*

Your undergraduate student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 2.

Your graduate-student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 3, as follows: Krishnakumar V. Nedunuri, A. Lakshmikanth, Mohammed S. Uddin,

Imad A. Basheer, and Hsu-Shih Shih Don't forget to send the information on where they got their B.S. Degree. Thanks.

\*\* Your alumnus candidate(s) are judged to be eligible for election to membership under Constitution Article VIII, as follows:

Section 4(a)(1)(2)(3)(4)(5).\*

Section 5(a)(1)(2)(3)(4)(5).\*

George P. Peterson

Section 6(a)(1)(2)(3)(4)(5).\*

\*(All elections under Sections 4, 5, & 6 shall comply with the applicable provisions of Sec. 7.)

**THIS LETTER IS NOT YOUR OFFICIAL INITIATION APPROVAL TO HOLD YOUR INITIATION.** It is only a judgment of the technical eligibility of these candidates for election to membership. Approval of their initiation will be given as soon as your Report of Election and Catalog Cards have been received.

Please be sure to enter, on the Report of Election, the proper action taken by your chapter on every eligible candidate, in accord with instructions on the report form.

When you send your Report of Election and a Catalog Card for each electee, keys and certificates will be ordered. *Please remind electees that Catalog Cards are permanent records of their membership and that we need full names (no initials), legibly printed by each electee, class years, and proper mailing addresses.*

If you requested electees' materials, including Constitution and Bylaws booklets, etc., and/or Bent castings on the Report of Eligibility, they are being shipped to you today. Creed cards were mailed earlier. If you will need motto slips for your initiates, please let me know when you send your Report of Election, you probably have a supply in your initiation kit.

Approved by

James D. Froula, P.E.

James D. Froula, Secretary-Treasurer



# THE TAU BETA PI ASSOCIATION POSTPONED & FINANCIAL REFUSAL ELECTEES

RECEIVED

Chapter Kansas Gamma

Date Fall 1995

Nov 13 1995

The persons listed below were elected by your chapter during past initiation seasons as noted. They have refused membership for financial reasons (Constitution Article VIII, Section 10) or have simply missed attending a formal initiation. Unless their election is to be cancelled, at the option of your chapter, the following three options apply:

- A) Persons whose names appear on this list and who remain eligible for membership may be initiated at the next regular initiation without re-election. Such electees who graduate may be initiated without re-election within five years from the date of election.
- B) Persons listed who become academically ineligible and whose postponements have been approved and documented by the Advisory Board may be initiated at the next regular initiation.
- C) Persons listed who become ineligible and whose postponements have not been approved by the Advisory Board must become eligible again and be re-elected during a subsequent term in order to be initiated.

If it is inconvenient for them to return to your chapter for initiation, arrangements can be made through the National Headquarters for their initiation by chapters near their homes.

Please indicate the action to be taken on each electee listed; i.e., To be initiated on Nov. 27<sup>th</sup> (date); Election cancelled by the chapter; Continue financial refusal or postponed status; etc.

## RETURN THIS SHEET WITH YOUR REPORT OF ELECTION

| Name & Class                              | Status / Date Elected | Advisory Board Approval | Re: Key     | Action by Chapter      |
|---|-----------------------|-------------------------|-------------|------------------------|
| Mark Ahmadi, '96                          | Finan Ref - Spr 1995  |                         | Not ordered | Not initiated          |
| Shawn Shiffer, '96                        | "                     | yes                     | "           | A (initiate this Fall) |
| Matt Schiefelbein, '95 Post - Spring 1995 |                       | yes                     | "           | A (" ")                |

If any of these are initiated, we need a catalog card. Thanks.

letter of approval

rec'd 11/17/95

attached to Spg 95

Fin Action by VW



THE TAU BETA PI ASSOCIATION, INCORPORATED

NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES

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P.O. BOX 2897, KNOXVILLE, TENNESSEE 37901-2897  
423/546-4578, FAX: 423/546-4579, E-MAIL: lbp@lbp.org

Don't forget to send copy  
of Roll Book signatures  
with Report of Final Action.

JAMES D. FROULA, P.E.  
SECRETARY-TREASURER

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

OFFICIAL APPROVAL TO HOLD YOUR INITIATION

To the President of the Kansas Gamma Chapter: Date November 16, 1995

\*\* Your Report(s) of Election and Catalog Card(s) for eligible students have been received and your election of 23 undergraduate(s) is hereby approved, under Constitution Article VIII, Section 2.

\*\* Your Report(s) of Election and Catalog Card(s) for graduate-student, alumnus, and eminent engineer candidate(s) have been received and their election is hereby approved under Constitution Article VIII, as follows:

Krishnakumar Nedunuri and Lakshmikanth Ananthapadmanabhan

Per my conversation with Philip and Esi, before I can give approval for Shawn Sec. 3  
Shiffer and Matt Schiefelbein, I must have a letter from the Advisory Board  
stating that they had an approved reason for missing the Spring 1995 ceremony. Sec. 4  
If you don't send it, and they are initiated, you will be fined for initiating  
ineligible candidates and could be put on probation. Because Esi said Phil (OVER) Sec. 5

George P. Peterson

\*\* These 23 electee(s) are approved for initiation on November 27, 1995

(NOTE: You may initiate postponed electees if and only if they are eligible for membership at the time of their initiation unless your Advisory Board approved and documented the postponements.)

\*\* We need Catalog Card(s) for the following electee(s): Esi said she has the original cards for Justin Mitchell, Mark Riddle, Jason Ross, and Aaron Walker. We need those when you send in your Final Action if they haven't already been sent. Thanks.

28 Keys have been ordered for delivery as soon as possible. (They usually require 3-4 weeks for delivery.)

28 Certificates have been ordered for delivery as soon as possible.

Approved by

James D. Froula, P.E.  
James D. Froula, Secretary-Treasurer

PLEASE BE SURE TO ACCOUNT FOR ALL ELECTEES, INCLUDING ALUMNI AND ANY FROM YOUR POSTPONED INITIATIONS LIST, ON YOUR REPORT OF FINAL ACTION! THE REPORT OF FINAL ACTION SHOULD BE SENT AS SOON AS POSSIBLE AFTER YOUR INITIATION, WITH A PHOTOCOPY OF YOUR ROLL BOOK SIGNATURES.



was working on the letter, you have tentative approval to initiate them, and we are ordering their keys and certificates at this time. Thanks, Rebecca

---



**THE TAU BETA PI ASSOCIATION  
POSTPONED & FINANCIAL REFUSAL ELECTEES**



Chapter Kansas Chapter

Date Fall

The persons listed below were elected by your chapter during past initiation seasons as noted. They have refused membership for financial reasons (Constitution Article VIII, Section 10) or have simply missed attending a formal initiation. Unless their election is to be cancelled, at the option of your chapter, the following three options apply:

- A) Persons whose names appear on this list and who remain eligible for membership may be initiated at the next regular initiation without re-election. Such electees who graduate may be initiated without re-election within five years from the date of election.
- B) Persons listed who become academically ineligible and whose postponements have been approved and documented by the Advisory Board may be initiated at the next regular initiation.
- C) Persons listed who become ineligible and whose postponements have not been approved by the Advisory Board must become eligible again and be re-elected during a subsequent term in order to be initiated.

If it is inconvenient for them to return to your chapter for initiation, arrangements can be made through the National Headquarters for their initiation by chapters near their homes.

Please indicate the action to be taken on each electee listed; i.e., To be initiated on Nov. 27, 1995 (date); Election cancelled by the chapter; Continue financial refusal or postponed status; etc.

**RETURN THIS SHEET WITH YOUR REPORT OF FINAL ACTION**

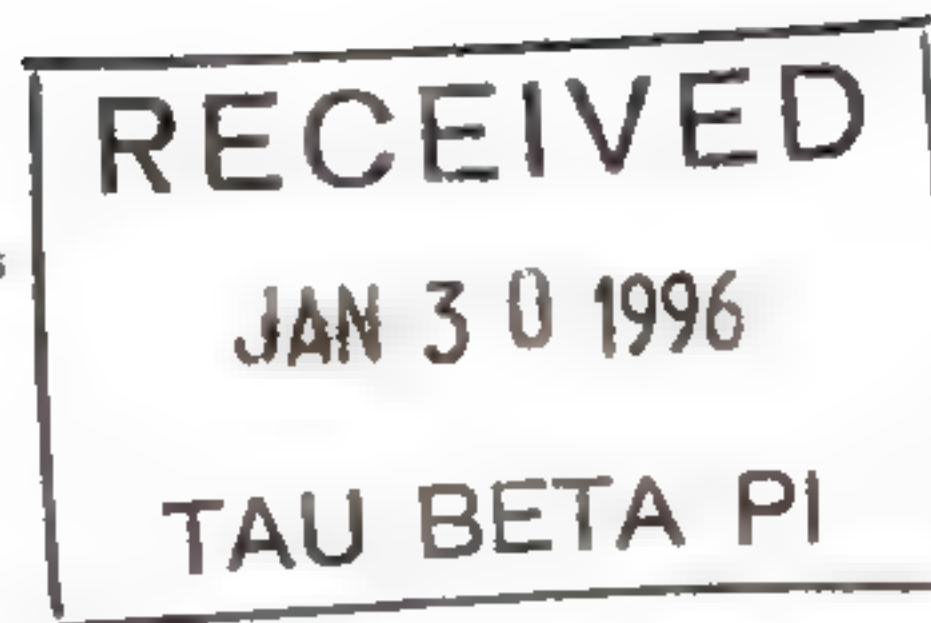
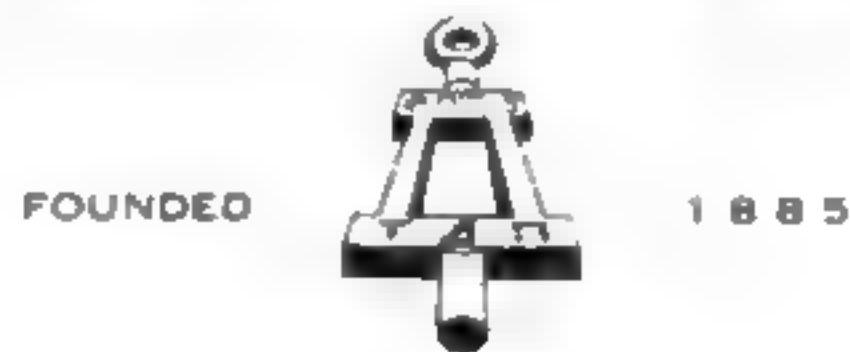
| Name & Class                              | Status / Date Elected | Advisory Board Approval | Re: Key     | Action by Chapter |
|---|-----------------------|-------------------------|-------------|-------------------|
| Mark Ahmadi, '96                          | Finan Ref - Spr 1995  |                         | Not ordered | C                 |
| Shawn Shifter, '96                        |                       |                         |             | Initiated         |
| Matt Schiefelbein, '95 Post - Spring 1995 |                       |                         | "           | C                 |

- Matt Schiefelbein was given an opportunity for initiation on Nov 27, 1995. He failed to show up on this, his second opportunity. Therefore he will not be given another chance.

Mark Ahmadi - no longer attends K-state.



THE TAU BETA PI ASSOCIATION  
INCORPORATED  
NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES



KANSAS GAMMA CHAPTER  
KANSAS STATE UNIVERSITY  
MANHATTAN, KS 66506

1-24-96

I have enclosed the officer information sheet. Please send me an officer election form (for this semester) and at least 7 project forms. Thank you very much for the election forms (initiation). In addition to the requested forms, please add another adviser to our chapter list.

Dr. Shell: <sup>K</sup>Starrett  
EECE Dept. KSU ✓  
Manhattan, KS 66506



name add on EDP

Also, I need to order 2 paper wts (bent paper wts) for the KS gamma chapter. They are for Michael Krier and Randy Schwartz in appreciation for work towards our convention bid. Please send me a form if necessary, if not please send the wents to me @: 526 N. 14th Street Apt. 11  
Manhattan, KS  
66502

They will be presented to these two @ our Spring initiation.  
Thank you very much for your assistance.

Sincerely,

017988DSTAR04SK 900

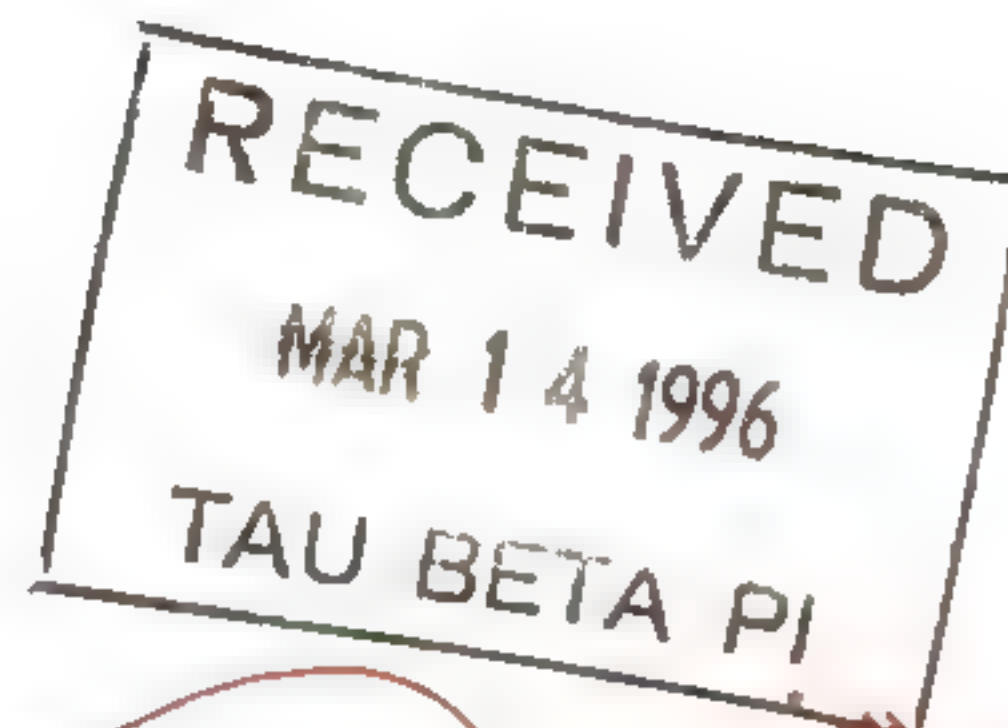
*Philip Knutson*  
Philip Knutson  
Correspondance Secretary  
KS Gamma





Department of Industrial and Manufacturing  
Systems Engineering

237 Durland Hall  
Manhattan, Kansas 66506-5101  
913-532-5606  
FAX: 913-532-7810  
Email: IMSE@KSUVM.KSU.EDU



February 19, 1996

Dr. Eddie Fowler  
Electrical Engg. Dept.  
DURLAND HALL

Dear Dr. Fowler:

Dr. Kramer left a note on my desk this weekend to check on eligibility of nominees from our department for the Tau Beta Pi membership. After conferring with Dr. David Ben-Arieh about one of his students, we are nominating Manoj Chopra who is a doctoral student under Dr. Ben-Arieh concentrating on Manufacturing Systems Engineering. He has a 4.0 GPA in his course work and has passed his prelims.

Sincerely,

Rosemary Visser

Rosemary Visser  
IMSE Secretary

Barry Clegg

Mod Amer. Nazarene

Physics & Comp Science May '93





**Department of Industrial and Manufacturing  
Systems Engineering**

237 Durland Hall  
Manhattan, Kansas 66506-5101  
913-532-5606  
FAX: 913-532-7810  
EMail: IMSE@KSUVM.KSU.EDU

Dr. David Ben-Arieh  
Associate Professor  
216 Durland Hall  
Email: davidbe @ ksu.ksu.edu  
Home Page: <http://www.ksu.eng/~davidbe/>

Friday, March 08, 1996

To Whom It May Concern:

Re: Recommendation for Mr. Manoj Chopra



I am very pleased to write this letter of recommendation on behalf of the student Manoj Chopra. Mr. Chopra is a Ph.D. student in the department of Industrial Engineering. Mr. Chopra actually has finished all his course work and has passed the halfway mark towards completion of his degree.

I have known Mr. Chopra for about two years as his faculty advisor and his instructor in several classes. Mr. Chopra proved to be an exceptionally talented and devoted student. He ranks at the top in all the classes that he took. Mr. Chopra is definitely at the top 5% of his class with a GPA of 4.0 (out of 4.0).

In addition to his scholastic excellence, Mr. Chopra serves as a role model to the other students. He is courteous, prepares course projects with precision, and helped other students with their assignments. As a student advanced in his field of study, Mr. Chopra even helps younger students with the research duties, and help them develop the necessary research aptitude.

To summarize, I am very impressed with Mr. Chopra and highly recommend him for the Manhattan Rotary Club Scholarship.

Sincerely yours,

Dr. David Ben-Arieh





**Department of Electrical  
and Computer Engineering**

261 Durland Hall  
Manhattan, Kansas 66506-5105  
913-532-5600

*For KS 8*

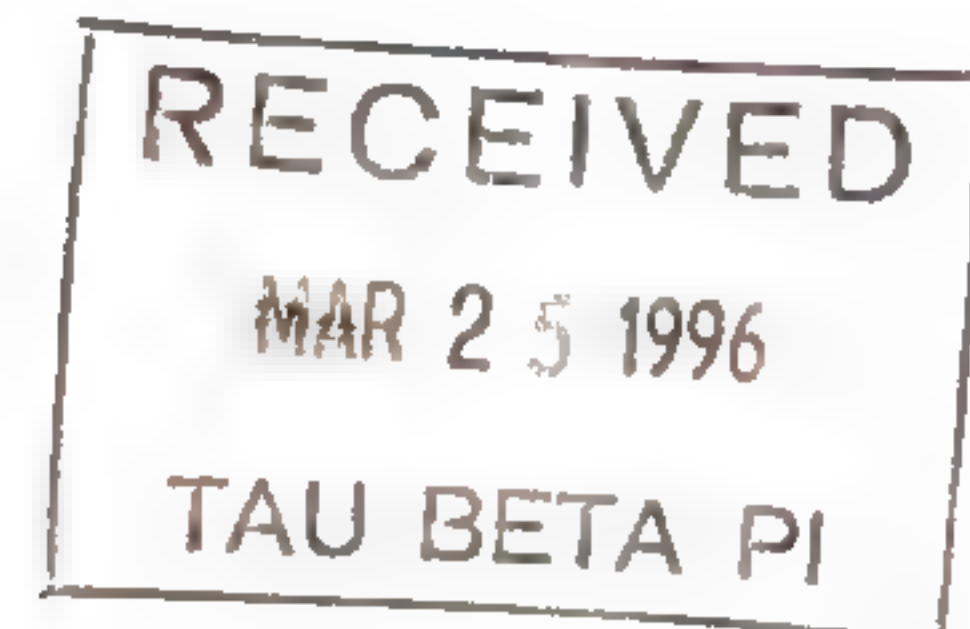
**MEMORANDUM**

**DATE:** March 15, 1996

**TO:** Tau Beta Pi

**FROM:** Norm Dillman

**RE:** Candidate Barry Clegg



I am serving as Barry Clegg's M.S. thesis advisor and certify that he has all the requirements completed (greater than 50%) to graduate in December 1996 except for courses he is currently enrolled in. He has a 4.0 grade point average for his M.S. course work.

*Norman Dillman*





## Cooperative Extension Service

Extension Agricultural Engineering  
237 Seaton Hall  
Manhattan, Kansas 66506-2917  
913-532-5813  
FAX: 913-532-6944

February 15, 1996

Eddie Fowler  
Professor  
Electrical Engineering  
266 Durland  
CAMPUS

Dr. Fowler:

*See 3*

I would like to recommend Mr. Wesley Twombly for membership in Tau Beta Pi. Mr. Twombly has been an exemplary graduate student working on an M.S. degree in our department, achieving a nearly perfect 4.0 GPA (ranking in the top 25% of graduate students in the College), and working toward completion of his program in December 1996. I feel he would be an excellent candidate for membership and an asset to the Society.

Wes' address is: 2 Corey Place  
Manhattan, KS 66502  
587-0600 (home); 532-5580 (dept)

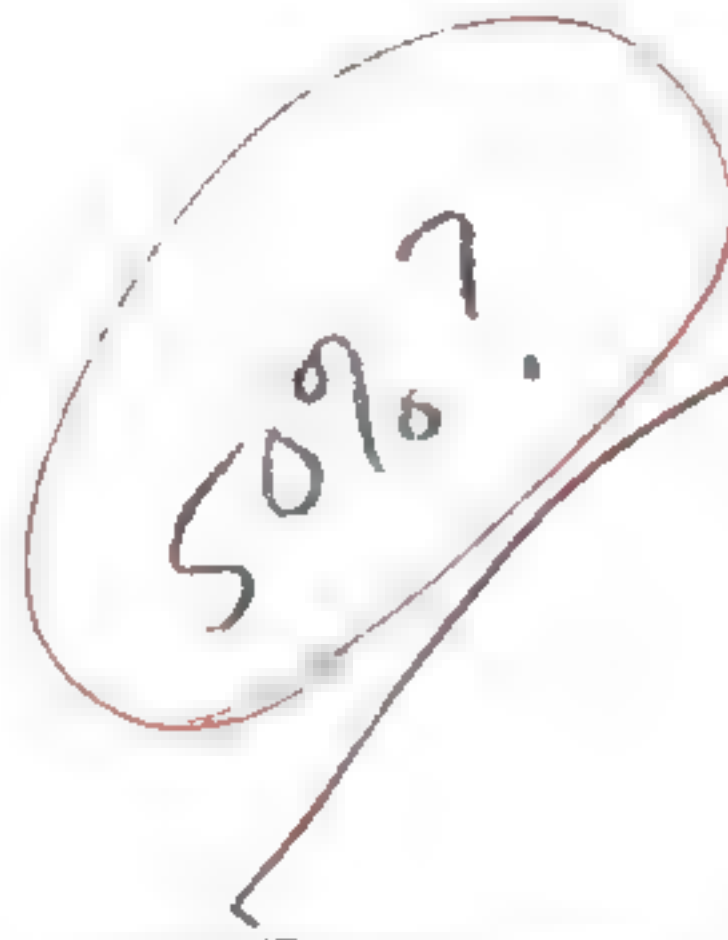
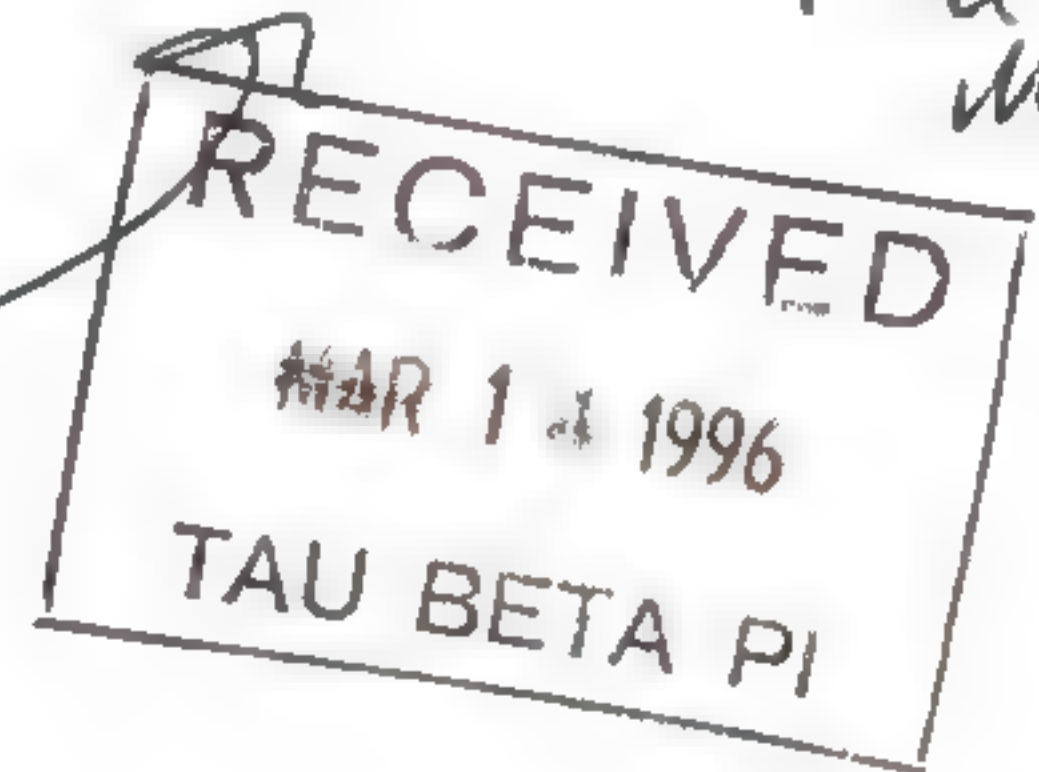
Wes will attend the smoker meeting this Monday, February 19. If you have any questions, please let me know.

Sincerely,

Kent D. Rausch, Ph.D.  
Assistant Professor

cc: S. J. Clark

*KSU Dec '94*  
*Under: Hy Enny Food Science*  
*Myt*



*Need to get following:*  
*where got undergrad & when*  
*and Degree of undergrad*  
*How pronounce name (Wesley)*



THE TAU BETA PI ASSOCIATION, INCORPORATED  
NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES

FOUNDED



1885

508 DOUGHERTY ENGINEERING HALL, UTK  
P.O. BOX 2697, KNOXVILLE, TENNESSEE 37901-2697  
423/546-4578, FAX: 423/546-4579, E-MAIL: tbp@tbp.org

JAMES D. FROULA, P.E.  
SECRETARY-TREASURER

ADDENDUM

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

ELIGIBILITY ACKNOWLEDGEMENT OF CANDIDATES FOR ELECTION

Date March 19, 1996

To the President of the  
Kansas Gamma

Chapter:

\*\*

\_\_\_\_ Your Report of Eligibility has been received, thank you.

\_\_\_\_ Your undergraduate student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 2.

\*\*  
\_\_\_\_ Your graduate-student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 3, as follows:

Barry Clegg and Wesley Twombly -- Please make sure you send the original letters to us. We still can't give approval for Manoj Chopra because we haven't received his 50% completion letter. Rebecca Received after this was typed

\_\_\_\_ Your alumnus candidate(s) are judged to be eligible for election to membership under Constitution Article VIII, as follows:

\_\_\_\_ Section 4(a)(1)(2)(3)(4)(5).\*

\_\_\_\_ Section 5(a)(1)(2)(3)(4)(5).\*

\_\_\_\_ Section 6(a)(b).\*

\_\_\_\_ \*(All elections under Sections 4, 5, & 6 shall comply with the applicable provisions of Sec. 7.)

**THIS LETTER IS NOT YOUR OFFICIAL INITIATION APPROVAL TO HOLD YOUR INITIATION.** It is only a judgment of the technical eligibility of these candidates for election to membership. Approval of their initiation will be given as soon as your Report of Election and Catalog Cards have been received.

Please be sure to enter, on the Report of Election, the proper action taken by your chapter on every eligible candidate, in accord with instructions on the report form.

When you send your Report of Election and a Catalog Card for each electee, keys and certificates will be ordered. Please remind electees that Catalog Cards are permanent records of their membership and that we need full names (no initials), legibly printed by each electee, class years, and proper mailing addresses.

If you requested electees' materials, including Constitution and Bylaws booklets, etc., and/or Bent castings on the Report of Eligibility, they are being shipped to you today. Creed cards were mailed earlier. If you will need motto slips for your initiates, please let me know when you send your Report of Election; you probably have a supply in your initiation kit.

Approved by [Signature] P.E.  
James D. Froula, Secretary-Treasurer



THE TAU BETA PI ASSOCIATION, INCORPORATED  
NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES

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423/546-4578, FAX: 423/546-4579, E-MAIL: tbp@tbp.org

Don't forget to send copy  
of Roll Book signatures  
with Report of Final Action.

JAMES D. FROULA, P.E.  
SECRETARY-TREASURER

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

OFFICIAL APPROVAL TO HOLD YOUR INITIATION

To the President of the Kansas Gamma Chapter: Date March 25, 1996

\*\* Your Report(s) of Election and Catalog Card(s) for eligible students have been received and your election of 26 undergraduate(s) is hereby approved, under Constitution Article VIII, Section 2.

\*\* Your Report(s) of Election and Catalog Card(s) for graduate-student, alumnus, and eminent engineer candidate(s) have been received and their election is hereby approved under Constitution Article VIII, as follows:

Barry Cleggs, Wesley Twombly, adn Manor Chopra

Sec. 3

Sec. 4

Sec. 5

Sec. 6

\*\* These 29 electee(s) are approved for initiation on April 22, 1996

(NOTE: You may initiate postponed electees if and only if they are eligible for membership at the time of their initiation unless your Advisory Board approved and documented the postponements.)

We need Catalog Card(s) for the following electee(s):

26 Keys have been ordered for delivery as soon as possible. (They usually require 3-4 weeks for delivery.)  
You have keys for Mitchell, Riddle, and Wesemann.

29 Certificates have been ordered for delivery as soon as possible.

Approved by

James D. Froula, P.E.  
James D. Froula, Secretary-Treasurer

PLEASE BE SURE TO ACCOUNT FOR ALL ELECTEES, INCLUDING ALUMNI AND ANY FROM YOU POSTPONED INITIATIONS LIST, ON YOUR REPORT OF FINAL ACTION! THE REPORT OF FINAL ACTION SHOULD BE SENT AS SOON AS POSSIBLE AFTER YOUR INITIATION, WITH A PHOTOCOPY OF YOUR ROLL BOOK SIGNATURES.



# THE TAU BETA PI ASSOCIATION POSTPONED & FINANCIAL REFUSAL ELECTEES

Chapter Kansas Gamma

Date Spring 1996

RECEIVED  
MAR 23 1996  
TAU BETA PI

The persons listed below were elected by your chapter during past initiation seasons as noted. They have refused membership for financial reasons (Constitution Article VIII, Section 10) or have simply missed attending a formal initiation. Unless their election is to be cancelled, at the option of your chapter, the following three options apply:

- A) Persons whose names appear on this list and who remain eligible for membership may be initiated at the next regular initiation without re-election. Such electees who graduate may be initiated without re-election within five years from the date of election.
- B) Persons listed who become academically ineligible *and* whose postponements have been *approved and documented* by the Advisory Board may be initiated at the next regular initiation.
- C) Persons listed who become ineligible and whose postponements have *not* been approved by the Advisory Board must become eligible again and be re-elected during a subsequent term in order to be initiated.

If it is inconvenient for them to return to your chapter for initiation, arrangements can be made through the National Headquarters for their initiation by chapters near their homes.

Please indicate the action to be taken on each electee listed; i.e., To be initiated on April 22, 1996 (date); Election cancelled by the chapter; Continue financial refusal or postponed status; etc.

## RETURN THIS SHEET WITH YOUR REPORT OF ELECTION

| Name & Class               | Status / Date Elected | Advisory Board Approval | Re: Key Chapter has | Action by Chapter  |
|----------------------------|-----------------------|-------------------------|---------------------|--------------------|
| Justin P. Mitchell, '97    | Post - Fall 1995      | <i>Approved</i>         |                     | A <i>Deny</i>      |
| Mark A. Riddle, '97        | "                     | <i>Approved</i>         | "                   | A <i>Refused A</i> |
| Stephanie S. Wesemann, '97 | "                     | <i>Approved</i>         | "                   | A <i>Deny</i>      |



THE TAU BETA PI ASSOCIATION, INCORPORATED

NATIONAL ENGINEERING HONOR SOCIETY  
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P.O. BOX 2697, KNOXVILLE, TENNESSEE 37901-2697  
423/546-4578, FAX: 423/546-4579, E-MAIL: tbp@tbp.org

Don't forget to send copy  
of Roll Book signatures  
with Report of Final Action.

J. S. D. FROULA, P.E.  
SECRETARY-TREASURER

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

OFFICIAL APPROVAL TO HOLD YOUR INITIATION

To the President of the Kansas Gamma Chapter: Date November 19, 1996

\*\* Your Report(s) of Election and Catalog Card(s) for eligible students have been received and your election of 34 undergraduate(s) is hereby approved, under Constitution Article VIII, Section 2.

Your Report(s) of Election and Catalog Card(s) for graduate-student, alumnus, and eminent engineer candidate(s) have been received and their election is hereby approved under Constitution Article VIII, as follows:

*Off init approval to B.M. 12/2/96*

Sec. 3

Sec. 4

Sec. 5

Sec. 6

\*\* These 34 electee(s) are approved for initiation on December 2, 1996.

(NOTE: You may initiate postponed electees if and only if they are eligible for membership at the time of their initiation unless your Advisory Board approved and documented the postponements.)

We need Catalog Card(s) for the following electee(s):

34 Keys have been ordered for delivery as soon as possible. (They usually require 3-4 weeks for delivery.)

34 Certificates have been ordered for delivery as soon as possible.

Approved by James D. Froula, P.E.  
James D. Froula, Secretary-Treasurer

PLEASE BE SURE TO ACCOUNT FOR ALL ELECTEES, INCLUDING ALUMNI AND ANY FROM YOUR POSTPONED INITIATIONS LIST, ON YOUR REPORT OF FINAL ACTION! THE REPORT OF FINAL ACTION SHOULD BE SENT AS SOON AS POSSIBLE AFTER YOUR INITIATION, WITH A PHOTOCOPY OF YOUR ROLL BOOK SIGNATURES. ALSO, DOCUMENT ANY APPROVED POSTPONEMENTS.



KS G

3/4/97

- Ruth Alexander - VP -

[Steve Starrett] <sup>not on reports not on EDP.</sup>  
grad UMR - BS89

Civil Eng'g -

MS UMR? or ISU -

PhD - ISU -

<sup>she's not sure</sup>

<sup>VW called</sup>

<sup>2 w/ message for Ruth</sup>

9/3/ 537 - 3183 -

<sup>Starrett's</sup>  
<sup>dis. would be on</sup>  
<sup>work - machine</sup>  
<sup>documentation</sup>  
<sup>primary</sup>  
<sup>add.</sup>



KSG 97  
SPG. 219-

Sec. 6(a)

Resume

James E. DeVault



### Areas of Expertise:

Autonomous Mobile Robotics, Power and Control Electronics, Industrial Control Systems, Instrumentation.

### Education:

M.S.E. Electrical Engineering, The University of Michigan, 1977.

M.S. Business Administration, Michigan Technological University, 1971.

B.S. Electrical Engineering, Michigan Technological University, 1970.

not on

Further graduate study in Higher Education Administration, Kansas State University, 1988-1990.

### Experience:

Professor (1996) of Electrical and Computer Engineering,  
Associate Professor (1992) of Electrical and Computer Engineering,  
College of Engineering, Kansas State University, Manhattan, Kansas.  
1992 - present.

Responsible for the Controls Systems and Robotics Laboratory.

IEEE Student Branch Counselor (1993-1995).

Research Associate of the Advanced Manufacturing Institute and engineering support  
for the Manufacturing Learning Center.

President and Senior Design Engineer,  
MicroControl Laboratories, Inc., Manhattan, Kansas.  
1990-1992.

Design and development of custom electronic instrumentation and controls. Responsible  
for both engineering management and design. Completed contracted projects in  
microprocessor-based instrumentation and industrial controls for both regionally- and  
nationally-based companies.



Associate Professor of Engineering Technology and  
Coordinator for the Electronics Engineering Technology Program,  
College of Engineering, Kansas State University, Manhattan, Kansas.  
1985-1992.

Primary responsibility for course work in robotics, power electronics, and automatic control systems. Engineering support for the Center for Excellence in Computer-Aided Manufacturing, Engineering support for the Institute for Environmental Research.

Senior Engineering Specialist, Control System Design Group,  
Power Electronics and Control Lab, Electronics and Space Division,  
Emerson Electric Company, St. Louis, Missouri.  
1984-1985.

Responsible for the design of robotic systems for military applications,  
Lead electrical engineer for three government contracted programs involving  
systems simulation, control law design, hardware development, and vehicle integration,  
Principal contributor to robotics technology assessment.

Associate Professor of Engineering Technology and  
Coordinator for Computer-Aided Engineering and Robotics,  
Lake Superior State College, Sault Ste Marie, Michigan.  
1980-1984.

Developed first nationally accredited baccalaureate program in Robotics Engineering Technology, Established robotics laboratory.

Department Head for Engineering Technology,  
Lake Superior State College, Sault Ste Marie, Michigan.  
1978-1980.

Administered ABET accredited baccalaureate programs in mechanical, electronic, and industrial engineering technology and seven accredited associate degree programs involving sixteen full-time departmental faculty, several adjunct faculty, two technicians, and an office staff.

Served as liaison between the college and the architect for the construction of an 8.5 million dollar Center for Engineering Technology and Applied Sciences, was responsible for the specification of 2 million dollars of technical equipment for the building.



Chairman of the Engineering Technology Department,  
Jackson Community College, Jackson, Michigan.  
1976-1978.

Established department and administered programs in electronic, mechanical, and electro-mechanical engineering technology.

Instructor/Assistant Professor/Associate Professor of Electronics Technology,  
Jackson Community College, Jackson, Michigan.  
1971-1976.

**Consulting Work:**

ICE Corporation, Manhattan, Kansas, 1995.

Designed soft-start motor controller for aircraft landing gear.

Dispensing Technologies, Manhattan, Kansas, 1992.

Developed control system for automatic capsule dispensing machinery.

Decision Data, Topeka, Kansas, 1991.

Designed control system for vehicular data collection instrumentation package.

Technol Corporation, Fort Worth, Texas, 1991.

Designed microprocessor-based pressure measurement system.

Hay and Forage Industries, Inc., Hesston, Kansas, 1989.

Designed microprocessor-based control system for experimental continuous-bale agricultural equipment.

Hoerst-Celanese, Charlotte, North Carolina, 1988.

Designed microprocessor-based mattress-comfort instrumentation system.

Norris Center, Sault Ste Marie, Michigan, 1983.

Designed custom athletic scoreboard equipment.

Bruce Township Schools, Central United Methodist Church, Alpha-Addition Bar,  
Sault Ste Marie, Michigan, 1981-1983.

Designed public address systems.

Rennco Company, St. Ignace, Michigan, 1982.

Designed digital control system for small parts packaging machinery.



Bunker Manufacturing, Sault Ste Marie, Michigan, 1980.

Designed digital control system for woven screen machinery.

Commonwealth Associates, Jackson, Michigan, 1974.

Designed protective relaying for coal-fired power plant.

Jackson Area Skill Center, Jackson, Michigan, 1975.

Developed electronics curriculum.

Clark Equipment Corporation, Jackson, Michigan, 1973.

Developed one-year training program in numerically-controlled machinery.

### **Professional Society Affiliations:**

Senior Member, Institute of Electrical and Electronic Engineers (IEEE)

Senior Member, Robotics International of SME (RI/SME)

Member, American Society for Engineering Education (ASEE)

### **Honors and Awards:**

Pasley Outstanding Teaching and Research Award, Kansas State University, 1994, 1995.

Eta Kappa Nu Distinguished Faculty Award, Kansas State University, 1993, 1995, 1996.

Hollis Award for Excellence in Undergraduate Teaching, Nominee: 1986, 1993, 1994.

John Fluke Award for Excellence in Laboratory Instruction, ASEE, 1996.

Who's Who Among America's Teachers, 1996.

### **Publications:**

J. DeVault, W. Hudson, M. Hossain, "An Automated System for Underwater Inspection of Bridge Substructures", Advanced Manufacturing Institute, Kansas State University, 1996.

J. DeVault, "A Student-Driven Approach to Research in the Undergraduate Laboratory: Mobile Robotics", presented at the Annual Meeting of the ASEE, Edmonton, Alberta, Canada, 1994.

J. Slocombe, J. DeVault, R. Turnquist, D. Delker, and G. Johnson, "A Continuous-Feed Round Baler", Research Report for Hay and Forage Industries, 1989.

J. DeVault, "Robographics: A Motivational Exercise for Beginning Students", presented at the Midwest Section Meeting of ASEE, Manhattan, Kansas, 1989.

E. McCullough, J. DeVault, and D. Delker, "Evaluation of the Comfort Properties of Selected Mattresses", Research Report for Hoerst-Celanese Corporation, 1987.

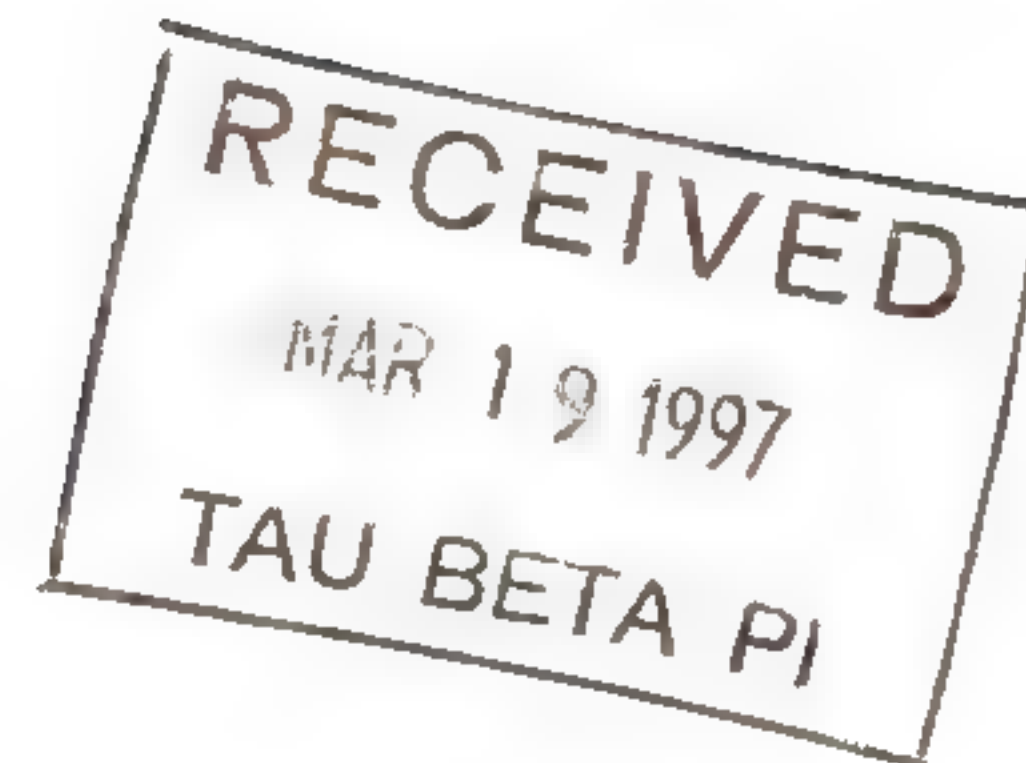
J. DeVault, "Laboratory Exercises to Support a Course in Electronic Instrumentation and Measurements", Kansas State University, 1987.





Department of Electrical  
and Computer Engineering

261 Durland Hall  
Manhattan, Kansas 66506-5105  
913-532-5600



21 February 1997

Dr. Eddie Fowler  
Faculty Advisor, KSU Tau Beta Pi Chapter  
Dept. of Electrical and Computer Engineering  
CAMPUS

Dear Dr. Fowler:

I am writing to nominate Mr. Siendou Ouattara, a Ph.D. candidate in Electrical and Computer Engineering, for membership in Tau Beta Pi. I am his major advisor, and he has completed all of the course work for his Ph.D. at KSU and has been admitted to candidacy for the Ph.D. His overall graduate GPA places him within the top 25% of all of the graduate students in the College of Engineering. I believe that Mr. Ouattara would be an excellent member of Tau Beta Pi, and I am pleased to recommend him. Please feel free to contact me should you have any questions.

Sincerely,

Ruth A. Dyer

Ruth A. Dyer, Ph.D.  
Associate Professor

Sec. 3

198 ✓ OK

2090?





Phone  
913-532-5606

FAX  
913-532-7810

E-mail  
IMSE@ksu.edu

Internet  
<http://www.eng.ksu.edu/IMSEDEPT>

## Industrial and Manufacturing Systems Engineering

237 Durland Hall  
Manhattan, Kansas 66506-5101



February 5, 1997

Professor Eddie Fowler  
Dept. Of Electrical Engg.  
Campus

Dear Professor Fowler:

I would like to recommend my student, Ping-Feng Pai, to be admitted to the Tau Beta Pi Association. Mr. Pai is working for his Ph.D. degree and he has completed over 50% of the requirement for his degree. He is among the top 25% of our graduate students.

Thank you.

Sincerely yours,

  
E. Stanley Lee  
Professor

20707





Phone  
913-532-5606

FAX  
913-532-7810

E-mail  
IMSE@ksu.edu

Internet  
<http://www.eng.ksu.edu/IMSEDEPT>

## Industrial and Manufacturing Systems Engineering

237 Durland Hall  
Manhattan, Kansas 66506-5101

RECEIVED

MAR 19 1997

TAU BETA PI

February 5, 1997

Professor Eddie Fowler  
Dept. Of Electrical Engg.  
Campus

Dear Professor Fowler:

I would like to recommend my student, Da-Ming Liu, to be admitted to the Tau Beta Pi Association. Mr. Liu is working for his Ph.D. degree and he has completed over 50% of the requirement for his degree. He is among the top 25% of our graduate students.

Thank you.

Sincerely yours,

E. Stanley Lee  
Professor

Sec. 3

20%?





## Department of Chemical Engineering

College of Engineering  
105 Durland Hall  
Manhattan, Kansas 66506-5102  
913-532-5584  
FAX: 913-532-7372  
chemail@cheme.ksu.edu



February 5, 1997

Dr. Eddie Fowler  
Electrical and Computer Engineering Department  
Durland Hall, Room 266  
CAMPUS

Dear Dr. Fowler,

I would like to nominate my graduate student Ying Gao for membership in Tau Beta Pi. Her graduate school grade point average is very high (3.964), as she has made all A's except for one B. She has authored or co-authored three papers, and will have presented the results of her research at three professional meetings by the end of May. Her work is characteristically innovative, insightful, and clearly presented. Sometime this year, she will complete her Ph.D. In short, Ying Gao is an ideal candidate for Tau Beta Pi membership.

Sincerely,

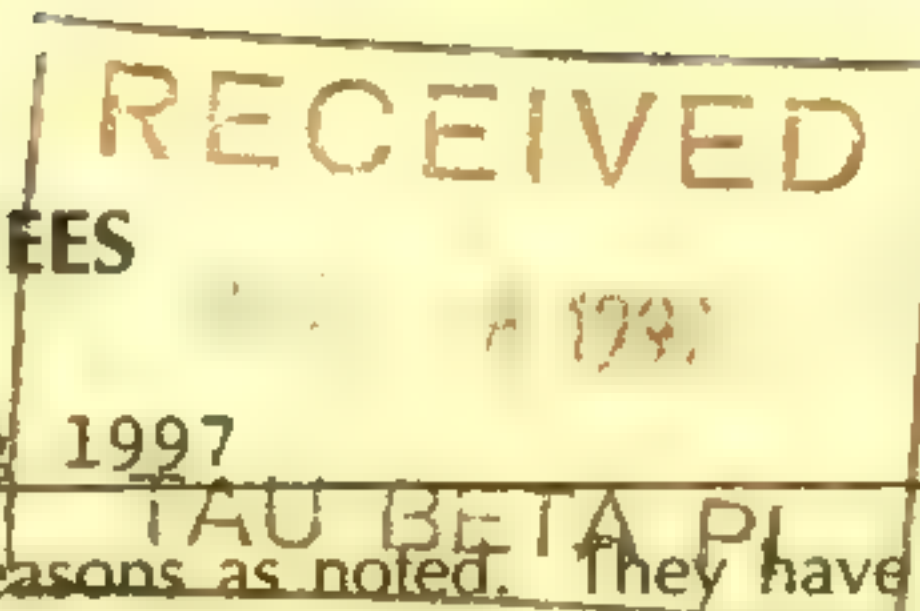
*James H. Edgar*  
James H. Edgar

532-4320  
edgarjh@ksu.ksu.edu

2090 ?  
3.964 GPA



**THE TAU BETA PI ASSOCIATION  
POSTPONED & FINANCIAL REFUSAL ELECTEES**



Chapter Kansas Gamma

Date Spring 1997

The persons listed below were elected by your chapter during past initiation seasons as noted. They have refused membership for financial reasons (Constitution Article VIII, Section 10) or have simply missed attending a formal Initiation. Unless their election is to be cancelled, at the option of your chapter, the following three options apply:

- A) Persons whose names appear on this list and who remain eligible for membership may be initiated at the next regular initiation without re-election. Such electees who graduate may be initiated without re-election within five years from the date of election.
- B) Persons listed who become academically ineligible and whose postponements have been *approved and documented* by the Advisory Board may be initiated at the next regular initiation.
- C) Persons listed who become ineligible and whose postponements have *not* been approved by the Advisory Board must become eligible again and be re-elected during a subsequent term in order to be initiated.

If it is inconvenient for them to return to your chapter for initiation, arrangements can be made through the National Headquarters for their initiation by chapters near their homes.

Please indicate the action to be taken on each electee listed; i.e., **To be initiated on** 4-28-97 (date); Election cancelled by the chapter; Continue financial refusal or postponed status; etc.

**RETURN THIS SHEET WITH YOUR REPORT OF ELECTION**

| Name & Class            | Status / Date Elected | Advisory<br>Board Approval | Re: Key     | Action by Chapter |
|-------------------------|-----------------------|----------------------------|-------------|-------------------|
| John M. Herrington, '99 | Finan Ref - Fall 1996 |                            | Chapter has | Initiate          |
|                         |                       |                            |             | Yes he will be    |
|                         |                       |                            |             |                   |
|                         |                       |                            |             |                   |



NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES



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423/546-4578, FAX: 423/546-4579, E-MAIL: [ibp@ibp.org](mailto:ibp@ibp.org)

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

REVISÉD

To the President of the

Kansas Gamma Chapter

Date Apr 15, 1997

**\*\***        Your Report of Eligibility has been received, thank you.

\_\_\_\_ Your undergraduate student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 2.

**\*\*** Your graduate-student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 3, as follows: Ying Gao, Ping-Feng Pai, Da-Ming Liu, and Siendou Ouattara

\_\_\_\_ Your alumnus candidate(s) are judged to be eligible for election to membership under Constitution Article VIII, as follows:

Section 4(a)(1)(2)(3)(4)(5).\*

Section 5(a)(1)(2)(3)(4)(5).\*

Section 6(a)(b).\*

*\*(All elections under Sections 4, 5, & 6 shall comply with the applicable provisions of Sec. 7.)*

This letter is a judgment of the technical eligibility of these candidates for election to membership. Approval of their initiation will be given as soon as your Report of Election and Catalog Cards have been received.

Please be sure to enter, on the Report of Election, the proper action taken by your chapter on every eligible candidate, in accord with instructions on the report form.

When you send your Report of Election and a Catalog Card for each electee, keys and certificates will be ordered. *Please remind electees that Catalog Cards are permanent records of their membership and that we need full names (no initials), legibly printed by each electee, class years, and proper mailing addresses.*

If you requested electees' materials, including Constitution and Bylaws booklets, etc., and/or Bent castings on the Report of Eligibility, they are being shipped to you today. Creed cards were mailed earlier. If you will need motto slips for your initiates, please let me know when you send your Report of Election; you probably have a supply in your initiation kit.

Approved by \_\_\_\_\_

Approved by James D. Froula, P.E.  
James D. Froula, Secretary-Treasurer



THE TAU BETA PI ASSO  
NATIONAL ENGINEER  
MEMBER OF ASSOCIATION

FOUNDED

508 DOUGHERTY E.  
P.O. BOX 2697, KNOXVILLE, TENNESSEE 37901-2697  
423/546-4578, FAX: 423/546-4579, E-MAIL: tbp@tbp.org

|                        |                       |              |              |
|------------------------|-----------------------|--------------|--------------|
| Post-it® Fax Note 7671 |                       | Date 3/20/97 | # of pages 1 |
| To Eddie Fowler        | From Rebecca / Vickie |              |              |
| Co./Dept. EECED-PT     | Co. Tau Beta Pi       |              |              |
| Phone # 913/532-4644   | Phone # 423/546-4578  |              |              |
| Fax # 913/532-7810     | Fax # 423/546-4578    |              |              |

JAMES D. FROULA, P.E.  
SECRETARY-TREASURER

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

ADDENDUM

**ELIGIBILITY ACKNOWLEDGEMENT OF CANDIDATES FOR ELECTION --  
THIS IS NOT YOUR OFFICIAL APPROVAL TO HOLD YOUR INITIATION.**

To the President of the  
Kansas Gamma

Chapter

Date March 20, 1997

**\*\* Your Report of Eligibility has been received, thank you.**

Your undergraduate student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 2.

**\*\* TENTATIVELY**  
Your graduate-student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 3, as follows: Ying Gao, Ping-Feng Pai, Da-Ming Liu, and Siendou Ouattara -- We can only give tentative approval to elect them because their letters said they were in the top 25% of their class, but the Constitution & Bylaws says 20%. Please check into this

Your alumnus candidate(s) are judged to be eligible for election to membership under Constitution Article VIII, as follows:

and have Dr. Fowler send us a letter. Thanks, Rebecca Section 4(a)(1)(2)(3)(4)(5).\*

Section 5(a)(1)(2)(3)(4)(5).\*

James E. DeVault

Section 6(a)(b)\*

*\*(All elections under Sections 4, 5, & 6 shall comply with the applicable provisions of Sec. 7.)*

This letter is a judgment of the technical eligibility of these candidates for election to membership. Approval of their initiation will be given as soon as your Report of Election and Catalog Cards have been received.

Please be sure to enter, on the Report of Election, the proper action taken by your chapter on every eligible candidate, in accord with instructions on the report form.

When you send your Report of Election and a Catalog Card for each electee, keys and certificates will be ordered. Please remind electees that Catalog Cards are permanent records of their membership and that we need full names (no initials), legibly printed by each electee, class years, and proper mailing addresses.

If you requested electees' materials, including Constitution and Bylaws booklets, etc., and/or Bent castings on the Report of Eligibility, they are being shipped to you today. Creed cards were mailed earlier. If you will need motto slips for your initiates, please let me know when you send your Report of Election; you probably have a supply in your initiation kit.

CC: Eddie R. Fowler, Chief Advisor  
(Via FAX)

Approved by

James D. Froula, P.E.  
James D. Froula, Secretary-Treasurer



THE TAU BETA PI ASSOCIATION, INCORPORATED

NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES

**A Reminder**

If your chapter's initiation fees (\$30 per initiate) have not been mailed to HQ, please send them now. Thank you.

FOUNDED



1885

508 DOUGHERTY ENGINEERING HALL, UTK  
P.O. BOX 2697, KNOXVILLE, TENNESSEE 37901-2697  
423/546-4578, FAX: 423/546-4579, E-MAIL: lbp@tbp.org

Don't forget to send copy  
of Roll Book signatures  
with Report of Final Action.

JAMES D. FROULA, P.E.  
SECRETARY-TREASURER

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

**OFFICIAL APPROVAL TO HOLD YOUR INITIATION**

To the President of the Kansas Gamma Chapter: Date April 15, 1997

\*\* Your Report(s) of Election and Catalog Card(s) for eligible students have been received and your election of 18 undergraduate(s) is hereby approved, under Constitution Article VIII, Section 2.

\*\* Your Report(s) of Election and Catalog Card(s) for graduate-student, alumnus, and eminent engineer candidate(s) have been received and their election is hereby approved under Constitution Article VIII, as follows:  
Ying Gao, Ping-Feng Pai, Da-Ming Liu, and Siendou Ouattara

Your postponed and Financial Refusal list says John Herrington will be Sec. 3  
initiated, but your report shows him Rejected A for lack of interest. Which Sec. 4  
is correct?

James Devault Sec. 6

\*\* These 23 electee(s) are approved for initiation on April 28, 1997.

*(NOTE: You may initiate postponed electees if and only if they are eligible for membership at the time of their initiation unless your Advisory Board approved and documented the postponements.)*

We need Catalog Card(s) for the following electee(s):

23 Keys have been ordered for delivery as soon as possible. (They usually require 3-4 weeks for delivery.)

23 Certificates have been ordered for delivery as soon as possible.

Approved by

James D. Froula, P.E.  
James D. Froula, Secretary-Treasurer

PLEASE BE SURE TO ACCOUNT FOR ALL ELECTEES, INCLUDING ALUMNI AND ANY FROM YOUR POSTPONED INITIATIONS LIST, ON YOUR REPORT OF FINAL ACTION! THE REPORT OF FINAL ACTION SHOULD BE SENT AS SOON AS POSSIBLE AFTER YOUR INITIATION, WITH A PHOTOCOPY OF YOUR ROLL BOOK SIGNATURES. ALSO, DOCUMENT ANY APPROVED POSTPONEMENTS.



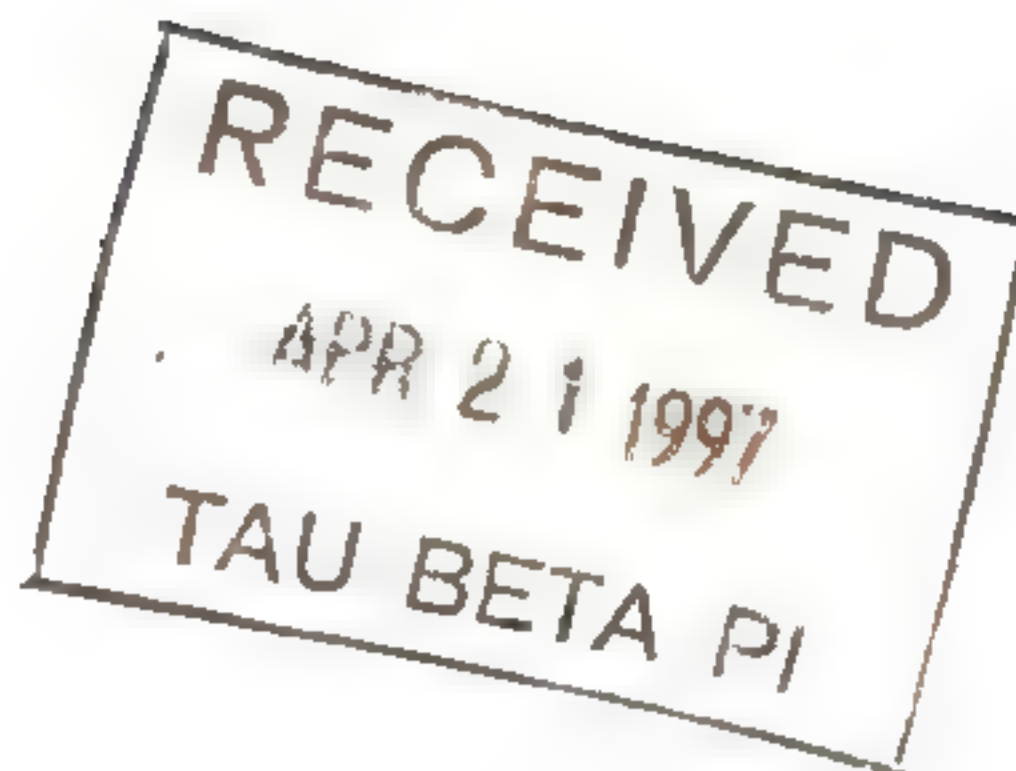
THE TAU BETA PI ASSOCIATION  
INCORPORATED

FOUNDED



1888

NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES



KANSAS GAMMA CHAPTER  
KANSAS STATE UNIVERSITY  
MANHATTAN, KS 66506

April 13, 1997

James D. Froula, P.E.  
Secretary-Treasurer  
The Tau Beta Pi Association, Incorporated  
508 Dougherty Engineering Hall, P.O. Box 2697  
Knoxville, TN 37901-2697

Dear Mr. Froula:

Due to me erroneously requesting that the major professors certify in their letters of nomination that their graduate students were in the top 25% of all of the graduate students in the college of engineering, that is what was done.

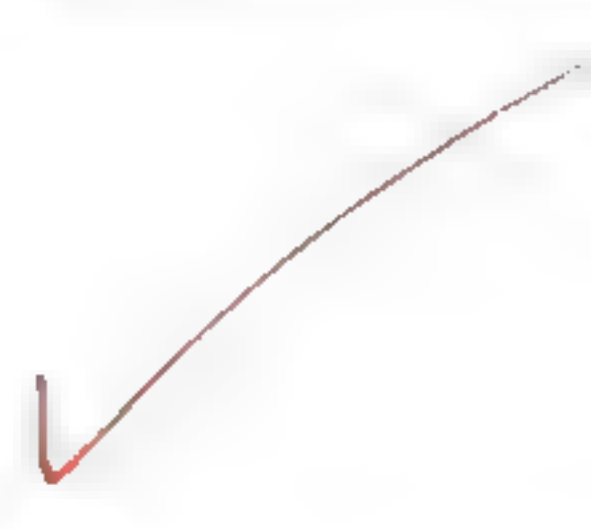
Since you notified me of this problem, I have contacted the professors involved and they have verbally certified that indeed their students are in the top 20% of the graduate students in the Kansas State University College of Engineering. The graduate students and their major professors are:

Graduate Student

Siendou Ouattara  
Da-Ming Liu  
Ping-Feng Pai  
Ying Gao

Major Professor

Dr. Ruth A. Dyer  
Dr. E. Stanley Lee  
Dr. E. Stanley Lee  
Dr. James H. Edgar



I apologize for making this error and hope that this letter will rectify it. If there are any questions concerning these students eligibility for membership in Tau Beta Pi, please let me know.

Sincerely,

*E. Randolph Fowler*

E. Randolph Fowler, Chief Advisor  
Kansas Gamma Chapter



April 21, 1997

Dr. Donald E. Rathbone  
Dean of Engineering  
146 Durland Hall  
Kansas State University  
Manhattan, KS 65506

Dear Dr. Rathbone:

On behalf of the Tau Beta Pi Association, I am pleased to extend to you the very best wishes of all of the national officers on the occasion of your retirement from Kansas State University. We are grateful for the services that you performed and your efforts, contributions, dedication, and enthusiasm in encouraging the Kansas Gamma Chapter of Tau Beta Pi. Your leadership was an important factor in the chapter's successful bid to host the 1998 national Convention. Your outstanding support of Kansas Gamma and your earnest promotion of Tau Beta Pi above and beyond normal expectations are greatly appreciated.

Dean Rathbone, thank you again for all the good things that you have done for Tau Beta Pi, and best personal regards and best wishes in your retirement.

Very truly yours,

James D. Froula, P.E.

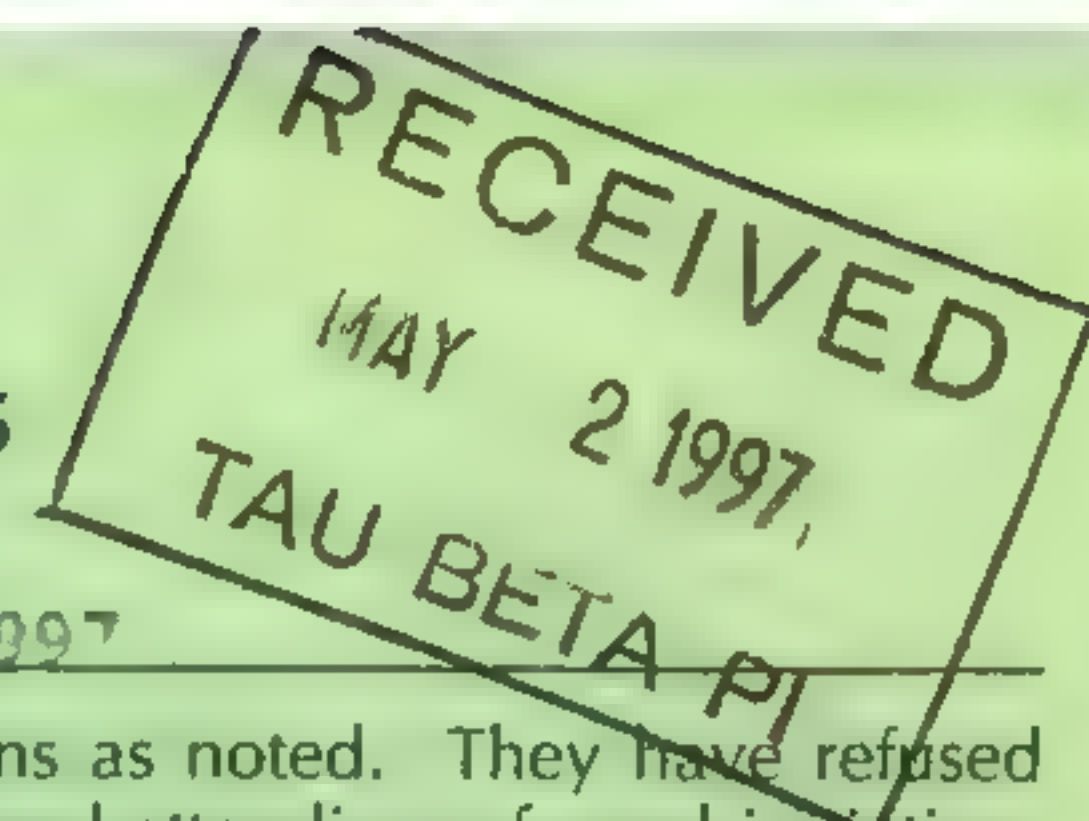
JDF/tv

CC: Edward D. Basta, President  
Dr. John R. Luchini, Executive Councillor  
E. Randolph Fowler, District 9 Director  
Charles W. Caldwell, District 9 Director





THE TAU BETA PI ASSOCIATION  
POSTPONED & FINANCIAL REFUSAL ELECTEES



Chapter Kansas Gamma

Date Spring 1997

The persons listed below were elected by your chapter during past initiation seasons as noted. They have refused membership for financial reasons (Constitution Article VIII, Section 10) or have simply missed attending a formal initiation. Unless their election is to be cancelled, at the option of your chapter, the following three options apply:

- A) Persons whose names appear on this list and who remain eligible for membership may be initiated at the next regular initiation without re-election. Such electees who graduate may be initiated without re-election within five years from the date of election.
- B) Persons listed who become academically ineligible *and* whose postponements have been *approved and documented* by the Advisory Board may be initiated at the next regular initiation.
- C) Persons listed who become ineligible and whose postponements have *not* been approved by the Advisory Board must become eligible again and be re-elected during a subsequent term in order to be initiated.

If it is inconvenient for them to return to your chapter for initiation, arrangements can be made through the National Headquarters for their initiation by chapters near their homes.

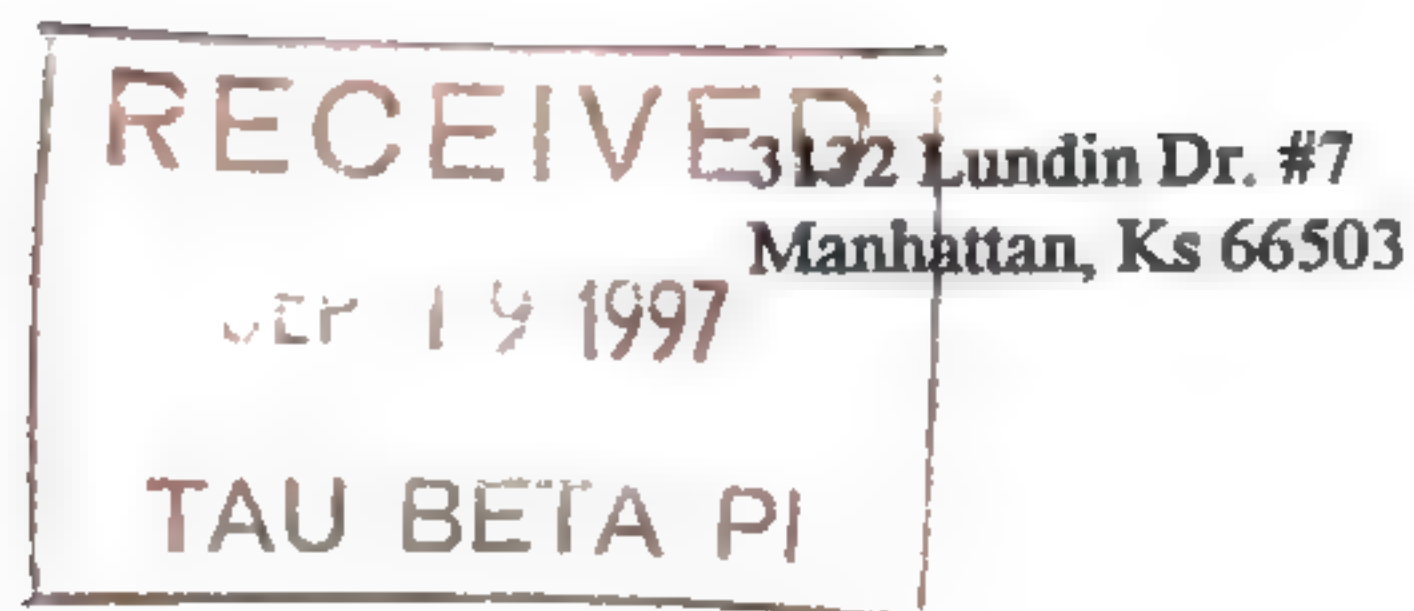
Please indicate the action to be taken on each electee listed; i.e., **To be initiated on** 4-28-97 (date); Election cancelled by the chapter; Continue financial refusal or postponed status; etc.

**RETURN THIS SHEET WITH YOUR REPORT OF FINAL ACTION**

| Name & Class            | Status / Date Elected | Advisory       |             |  | Action by Chapter |
|-------------------------|-----------------------|----------------|-------------|--|-------------------|
|                         |                       | Board Approval | Re: Key     |  |                   |
| John M. Herrington, '91 | Finan Ref - Fall 1996 |                | Chapter has |  | initiated him     |
|                         |                       |                |             |  |                   |



Tau Beta Pi Association  
508 Dougherty Engineering Hall, UTK  
Knoxville, TN 37901-2697



Dear Secretary:

I have enclosed in this packet our chapter's member list and advisor list. Please note that Bradley Guenther is one of our advisors now. Therefore, we would like you to accept him as an advisor on his national convention travel plan that we sent to you before. Thanks.

AW  
C  
Advisor OK for Conu.  
vw

Sincerely,

Brian Budke  
Brian Budke



THE TAU BETA PI ASSOCIATION, INCORPORATED  
NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES

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508 DOUGHERTY ENGINEERING HALL, UTK  
P.O. BOX 2697, KNOXVILLE, TENNESSEE 37901-2697  
423/548-4578, FAX: 423/548-4579, E-MAIL: tbp@tbp.org

Don't forget to send copy  
of Roll Book signatures  
with Report of Final Action.

JAMES D. FROULA, P.E.  
SECRETARY-TREASURER

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

OFFICIAL APPROVAL TO HOLD YOUR INITIATION

To the President of the Kansas Gamma Chapter: Date October 2, 1997

\*\* Your Report(s) of Election and Catalog Card(s) for eligible students have been received and your election of 25 undergraduate(s) is hereby approved, under Constitution Article VIII, Section 2.

\_\_\_\_ Your Report(s) of Election and Catalog Card(s) for graduate-student, alumnus, and eminent engineer candidate(s) have been received and their election is hereby approved under Constitution Article VIII, as follows:

\_\_\_\_ Sec. 3

\_\_\_\_ Sec. 4

\_\_\_\_ Sec. 5

\_\_\_\_ Sec. 6

\*\* These 25 electee(s) are approved for initiation on October 13, 1997.

*(NOTE: You may initiate postponed electees if and only if they are eligible for membership at the time of their initiation unless your Advisory Board approved and documented the postponements.)*

\_\_\_\_ We need Catalog Card(s) for the following electee(s): \_\_\_\_\_

25 \_\_\_\_\_ Keys have been ordered for delivery as soon as possible. (They usually require 3-4 weeks for delivery.)

25 \_\_\_\_\_ Certificates have been ordered for delivery as soon as possible.

Approved by \_\_\_\_\_

*James D. Froula, P.E.*  
James D. Froula, Secretary-Treasurer

PLEASE BE SURE TO ACCOUNT FOR ALL ELECTEES, INCLUDING ALUMNI AND ANY FROM YOUR POSTPONED INITIATIONS LIST, ON YOUR REPORT OF FINAL ACTION! THE REPORT OF FINAL ACTION SHOULD BE SENT AS SOON AS POSSIBLE AFTER YOUR INITIATION, WITH A PHOTOCOPY OF YOUR ROLL BOOK SIGNATURES. ALSO, DOCUMENT ANY APPROVED POSTPONEMENTS.



THE TAU BETA PI ASSOCIATION, INCORPORATED

NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES

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P.O. BOX 2697, KNOXVILLE, TENNESSEE 37901-2697  
423/548-4578, FAX: 423/548-4579, E-MAIL: tbp@tbp.org

Don't forget to send copy  
of Roll Book signatures  
with Report of Final Action.

JAMES D. FROULA, P.E.  
SECRETARY-TREASURER

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

OFFICIAL APPROVAL TO HOLD YOUR INITIATION

To the President of the Kansas Gamma Chapter: Date March 31, 1998

\*\* Your Report(s) of Election and ~~Catalog Card(s)~~ for eligible students have been received and your election of 27 undergraduate(s) is hereby approved, under Constitution Article VIII, Section 2.

\_\_\_\_ Your Report(s) of Election and Catalog Card(s) for graduate-student, alumnus, and eminent engineer candidate(s) have been received and their election is hereby approved under Constitution Article VIII, as follows:

Troy, everyone on your report should have something by their name, either  
Member, Rejected A, B, C, or D; Elected and Accepted or Elected and Refused.  
This MUST be fixed on your Report of Final Action. If it is not, it will Sec. 3  
affect your Headquarters' grade toward the Secretary's Commendation. If you  
have any questions, please call. A copy of one page of your report is Sec. 4  
attached. Sec. 5  
\_\_\_\_ Sec. 6

\*\* These 27 electee(s) are approved for initiation on April 19, 1998.

*(NOTE: You may initiate postponed electees if and only if they are eligible for membership at the time of their initiation unless your Advisory Board approved and documented the postponements.)*

\*\* We need Catalog Card(s) for the following electee(s): All cards -- Keys and certificates can't  
be ordered until we receive them. Thanks.

0 Keys have been ordered for delivery as soon as possible. (They usually require 3-4 weeks for delivery.)

0 Certificates have been ordered for delivery as soon as possible.

CC: District 9 Directors

Approved by

James D. Froula, P.E.  
James D. Froula, Secretary-Treasurer

PLEASE BE SURE TO ACCOUNT FOR ALL ELECTEES, INCLUDING ALUMNI AND ANY FROM YOUR POSTPONED INITIATIONS LIST, ON YOUR REPORT OF FINAL ACTION! THE REPORT OF FINAL ACTION SHOULD BE SENT IMMEDIATELY AFTER YOUR INITIATION, WITH A PHOTOCOPY OF YOUR ROLL BOOK SIGNATURES. ALSO, DOCUMENT ANY APPROVED POSTPONEMENTS.



KS G

08/20/10

Dr. Fowler

Cataloger or ~~can~~ ~~see~~ may call

Will be sending Report Electronically

Submit Tue Sept 8<sup>th</sup>

Will send CC's & Elog Sept 11



Application + fill out cc's



We will ~~do~~ order MC  
on computer but Do not  
mail

Election will be Sept 21<sup>st</sup> (when ~~the~~ <sup>signatures</sup> + projects)

will fax names & those elected on Sept 22

22<sup>nd</sup> after we receive names send orders to

Bum Pitt + Printing Plus Overweight

ST  
BCC

— Dr. Richard B Hayter

Change chapter account \$30.00

he will be MC for Sat night

Dr Fowler will E mail me her address so I can  
send off ant journal, he will also get me  
a catalog and ...

it is hard to  
order the  
journal  
from  
the  
internet



KSU  
Fall 1998  
Elec Eng

RECEIVED

SEP 14 1998

TAU BETA PI

## CURRICULUM VITA

**Anil Pahwa**

Department of Electrical and  
Computer Engineering  
Kansas State University  
Manhattan, KS 66506-5105  
Telephone: (913) 532-4654  
FAX: (913) 532-1188  
E-mail: pahwa@eece.ksu.edu

### EDUCATION:

| Institution   | Degrees | Attendance  | Area        |
|---|---------|-------------|-------------|
| Birla Institute of Technology<br>and Science, Pilani, India | B.E.    | 07/70-08/75 | Elec. Engg. |
| University of Maine at Orono                                | M.S.    | 09/77-05/79 | Elec. Engg. |
| Texas A & M University                                      | Ph.D.   | 06/79-08/83 | Elec. Engg. |

### TECHNICAL AREAS OF INTEREST:

Distribution Automation, Computer Methods for Power Systems, Distance Education.

### ACADEMIC EXPERIENCE:

1994 - Present Professor  
1989 - 1994 Associate Professor  
1983 - 1989 Assistant Professor  
Department of Electrical & Computer Engineering  
Kansas State University

### PROFESSIONAL AFFILIATIONS

- Senior Member of IEEE
- Member of the Technical Advisory Committee for International Symposium on Distribution Automation and Demand Side Management since 1991.
- IEEE Power Engineering Society: Secretary of Working Group on Distribution Automation, Secretary of Subcommittee on Distribution System Analysis, Member of Power Systems Research Committee and Power Engineering Education Committee

### HONORS AND AWARDS:

- Member of Eta Kappa Nu - Electrical Engineering Honor Society
- Nominated for Hollis Award for excellence in undergraduate teaching in 1991 and 1992
- Received Paslay Award for teaching and research in 1993 and 1995



## RECENT PUBLICATIONS

1. J.J. Wakileh and A. Pahwa, "Optimization of Distribution System Design to Accommodate Cold Load Pickup," *IEEE Transaction on Power Delivery*, January 1997, pp. 339-345.
2. J.J. Wakileh and A. Pahwa, "Distribution System Design Optimization for Cold Load Pickup," *IEEE Transaction on Power Systems*, November 1996, pp. 1879-1884.
3. P. D. Rodrigo, A. Pahwa, and J. E. Boyer, "Location of Outages in Distribution Systems Based on Statistical Hypotheses Testing," *IEEE Transaction on Power Delivery*, January 1996, pp. 546-551.
4. C. Uçak and A. Pahwa, "Optimal Step-by-Step Restoration of Distribution Systems during Excessive Loads Due to Cold Load Pickup," *Electric Power Systems Research* 32 (1995) 121-128.
5. A. Pahwa and C. Uçak, "Infrastructure Enhancement for Restoration of Distribution Systems Following Extended Outages," Special Issue of the *Journal of Electric Machines and Power Systems* on Electric Power Systems Infrastructure Improvement, November-December 1994, pp. 711-726.

## RECENT RESEARCH PROJECTS AND GRANTS

1. "Flexible Power System Control," Combined Research and Curriculum Development award from National Science Foundation, Co-Principal Investigator with Shelli Starrett, Kansas State University; Scott Sudhoff and Mariesa Crow, University of Missouri — Rolla; Kraig Olejniczak, University of Arkansas, \$400,000 (K-State's share \$160,000), 1995-1998.
2. "The Impacts of Cold Load Pickup on Design and Operation of Power Distribution Systems", National Science Foundation, Principal Investigator, \$91,026, 1994-97.
3. "The Impacts of Cold Load Pickup on Design and Operation of Power Distribution Systems", National Science Foundation, Research Experience for Undergraduates (REU) Supplement, Principal Investigator, \$5,000, 1995.
4. "The Impacts of Cold Load Pickup on Design and Operation of Power Distribution Systems", National Science Foundation, Research Experience for Undergraduates (REU) Supplement for Greg Long, Teacher at Olathe North High School, Principal Investigator, \$5,000, 1996-97.





Phone  
913-532-5606

FAX  
913-532-7810

E-mail  
IMSE@ksu.edu

Internet  
<http://www.engg.ksu.edu/IMSEDEPT>

## Industrial and Manufacturing Systems Engineering

237 Durland Hall  
Manhattan, Kansas 66506-5101



September 10, 1998

From: E. Stanley Lee  
To: Tau Beta Pi  
Subject: recommendation for membership

This is to certify that Mr. Kuen-Tai Chen, an MS candidate under my supervision has completed all his course requirements and is near completion on his research. In fact, he has been admitted to our Ph. D. program. Mr. Chen is in the top 25% of his class

Sincerely yours,

E. Stanley Lee  
Professor



*Dec 3  
Fall 98  
elig*

MEMORANDUM



Department of Mechanical and  
Nuclear Engineering  
302 Rathbone Hall  
Manhattan, KS 66506-5204  
785-532-5610  
Fax: 785-532-7057

TO: Tau Beta Pi Selection Committee

FROM: M. H. Hosni, Associate Professor *M.H. Hosni*

DATE: September 15, 1998

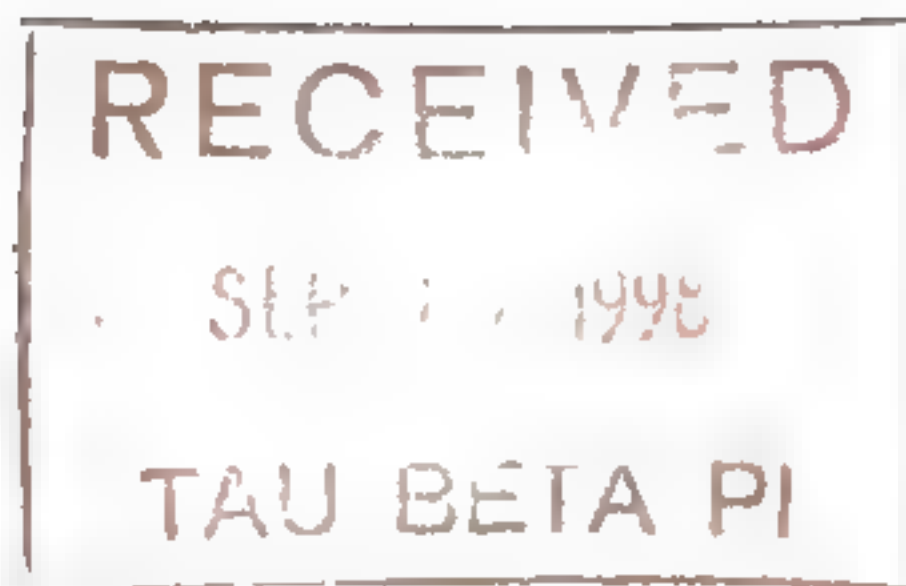
SUBJECT: Nomination letter for John Kelly

I am writing this letter in support of Mr. John Kelly's nomination for induction in the Tau Beta Pi honor society. Mr. Kelly is an excellent graduate student who is pursuing a Ph.D. degree in Mechanical Engineering at Kansas State University. He has done very well academically and is well qualified for induction in the Tau Beta Pi honor society. He has completed more than 75% of his course work and his ranking is in the top 25% of his graduating class. I encourage you to give his application careful consideration. Thank you.



See 3  
Fall 98  
Wig

MEMORANDUM



Department of Mechanical and  
Nuclear Engineering

302 Rathbone Hall  
Manhattan, KS 66506-5204  
785-532-5610  
Fax: 785-532-7057

TO: Tau Beta Pi Selection Committee

FROM: M. H. Hosni, Associate Professor *M. H. Hosni*

DATE: September 15, 1998

SUBJECT: Nomination letter for Jerry M. Sipes

I am writing this letter in support of Mr. Jerry M. Sipes' nomination for induction in the Tau Beta Pi honor society. Mr. Sipes is an excellent graduate student who in pursuing a Ph.D. degree in Mechanical Engineering at Kansas State University. He has done very well academically and is well qualified for induction in the Tau Beta Pi honor society. He has completed all his course work and his ranking is in the top 25% of his graduating class. I encourage you to give his application careful consideration. Thank you.



THE TAU BETA PI ASSOCIATION, INCORPORATED

NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES

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423/546-4578, FAX: 423/546-4579, E-MAIL: tbp@tbp.org

JAMES D. FROULA, P.E.  
SECRETARY-TREASURER

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

**ELIGIBILITY ACKNOWLEDGEMENT OF CANDIDATES FOR ELECTION --  
THIS IS NOT YOUR OFFICIAL APPROVAL TO HOLD YOUR INITIATION.**

To the President of the

Kansas Gamma Chapter

Date September 18, 1998

\*\* Your Report of Eligibility has been received, thank you.

\*\* Your undergraduate student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 2.

\*\* Your graduate-student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 3, as follows: Jerry Sipes, John Kelly, and Kuentai Chen

\*\* Your alumnus candidate(s) are judged to be eligible for election to membership under Constitution Article VIII, as follows:

Section 4(a)(1)(2)(3)(4)(5).\*

Section 5(a)(1)(2)(3)(4)(5).\*

Anil Pahwa Section 6(a)(b).\*

*\*(All elections under Sections 4, 5, & 6 shall comply with the applicable provisions of Sec. 7.)*

This letter is a judgment of the technical eligibility of these candidates for election to membership. Approval of their initiation will be given as soon as your Report of Election and Catalog Cards have been received.

Please be sure to enter, on the Report of Election, the proper action taken by your chapter on every eligible candidate, in accord with instructions on the report form.

When you send your Report of Election and a Catalog Card for each electee, keys and certificates will be ordered. *Please remind electees that Catalog Cards are permanent records of their membership and that we need full names (no initials), legibly printed by each electee, class years, and proper mailing addresses.*

If you requested electees' materials, including Constitution and Bylaws booklets, etc., and/or Bent castings on the Report of Eligibility, they are being shipped to you today. Creed cards were mailed earlier. If you will need motto slips for your initiates, please let me know when you send your Report of Election; you probably have a supply in your initiation kit.

Approved by

James D. Froula, P.E.  
James D. Froula, Secretary-Treasurer

CC: Dr. Fowler (Sigma Tau BOC Paperwork)



Dr. Fowler

09/25/98

5:35

Fittle confused re. Ratings for Projects

KS G  $\rightarrow$  no projects Group 6

He said officer told him everything was  
straightened out regarding Survey form  
he knew we received project.

Someone talked to Roger about Survey form  
after Chris called them & said we need a survey.

He also didn't understand why he rec'd

Howard's mailing he's not on that committee

I told him thanks for informing us  
we would need to do a revision.



THE TAU BETA PI ASSOCIATION, INCORPORATED  
NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES

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P.O. BOX 2697, KNOXVILLE, TENNESSEE 37901-2697  
423/548-4578, FAX: 423/548-4579, E-MAIL: tbp@tbp.org

Don't forget to send copy  
of Roll Book signatures  
with Report of Final Action.

JAMES D. FROULA, P.E.  
SECRETARY-TREASURER

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

OFFICIAL APPROVAL TO HOLD YOUR INITIATION

To the President of the Kansas Gamma Chapter: Date September 22, 1998

FAXED

\*\* Your Report(s) of Election and Catalog Card(s) for eligible students have been received and your election of 24 undergraduate(s) is hereby approved, under Constitution Article VIII, Section 2.

\*\* Your Report(s) of Election and Catalog Card(s) for graduate-student, alumnus, and eminent engineer candidate(s) have been received and their election is hereby approved under Constitution Article VIII, as follows:

Sipes, Kelly, and Chen

Sec. 3

Sec. 4

Sec. 5

Pahwa

Sec. 6

\*\* These 28 electee(s) are approved for initiation on October 10, 1998.

(NOTE: You may initiate postponed electees if and only if they are eligible for membership at the time of their initiation unless your Advisory Board approved and documented the postponements.)

We need Catalog Card(s) for the following electee(s):

26 Keys have been ordered for delivery as soon as possible. (They usually require 3-4 weeks for delivery.)

You should have a key for Bernhardt and we have ordered a keypin for Moluf.

28 Certificates have been ordered for delivery as soon as possible.

If you have questions or problems, please call Lanita or Rebecca.

cc: Dr. Fowler

Approved by

James D. Froula  
James D. Froula, Secretary-Treasurer

PLEASE BE SURE TO ACCOUNT FOR ALL ELECTEES, INCLUDING ALUMNI AND ANY FROM YOUR POSTPONED INITIATIONS LIST, ON YOUR REPORT OF FINAL ACTION! THE REPORT OF FINAL ACTION SHOULD BE SENT IMMEDIATELY AFTER YOUR INITIATION, WITH A PHOTOCOPY OF YOUR ROLL BOOK SIGNATURES. ALSO, DOCUMENT ANY APPROVED POSTPONEMENTS.



THE TAU BETA PI ASSOCIATION, INCORPORATED  
NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES

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P.O. BOX 2897, KNOXVILLE, TENNESSEE 37901-2897  
423/548-4578, FAX: 423/548-4579, E-MAIL: lbp@lbp.org

JAMES D. FROULA, P.E.  
SECRETARY-TREASURER

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

September 22, 1998

Dr. Terry S. King  
Dean  
College of Engineering  
146 Rathbone Hall  
Kansas State University  
Manhattan, KS 66506-5104

Dear Dr. King:

Thank you for your note of September 18 inquiring about the eligibility of computer science students for Tau Beta Pi.

First, I assume that the computer science curriculum for the students is not accredited by ABET. I also assume that they do not intend to become engineers and that they are ineligible to ever become professional engineers.

Next, I'll point out that there is a special honor society for computer science students. For this and the above reasons, I never give encouragement for a chapter to initiate computer scientists as members of Tau Beta Pi.

Our Tau Beta Pi Constitution Article VIII, Section 2, addresses this issue for non-engineering curricula by stating that a chapter may decide for itself by a three-fourths majority vote, subject to the approval of its Advisory Board, to exclude from eligibility all students of a particular curriculum who, in the opinion of the chapter, are not engineering students, even if their curriculum is administered by the college of engineering of the institution. Enclosed are the appropriate pages; Dr. Fowler can easily obtain for you an entire Constitution booklet. This issue is often confusing. I'll be happy to answer any questions. Good luck.

Sincerely

James D. Froula, P.E.

JDF/tv

Enclosure



Message for tbp

From: Terry S. King  
 Date: Fri, Sep 18, 1998 4:46 PM  
 To: tbp



Note to Jim Froula

Jim,

I hope you can give me hand with a problem I have brewing here at Kansas State University. The Department of Computing and Information Science recently joined our college. The faculty in that department, some of whom are Tau Bates, really want this opportunity for their students. However, I get conflicting comments from the faculty in this department and one of our Tau Beta Pi advisors about what are the requirements for election. What are the rules about "non engineers" such as computer scientists election to Tau Beta Pi? Any help you can give me would be greatly appreciated.

Thanks.

Terry

---

Terry S. King  
 Dean  
 College of Engineering  
 146 Rathbone Hall  
 Kansas State University  
 Manhattan, KS 66506-5104

Voice: 785-532-5590  
 Fax: 785-532-7810  
 e-mail: tsking@ksu.edu  
<http://www.engg.ksu.edu/>

---

----- RFC822 Header Follows -----  
 Received: by sense.engr.utk.edu with ADMIN;18 Sep 1998 16:13:32 -0500  
 Received: from tsk.dengr.engg.ksu.edu (end-ami.ami.ksu.edu [129.130.41.207])  
 by mailhub-2.cns.ksu.edu (8.9.1/8.9.1/mailhub-2+tar) with SMTP id PAA10054  
 for <tbp@tbp.org>; Fri, 18 Sep 1998 15:10:15 -0500 (CDT)  
 Message-Id: <3.0.3.32.19980918151053.0318abf8@pop.ksu.edu>  
 X-Sender: tsking@pop.ksu.edu  
 X-Mailer: QUALCOMM Windows Eudora Pro Version 3.0.3 (32)  
 Date: Fri, 18 Sep 1998 15:10:53 -0500  
 To: tbp@tbp.org  
 From: "Terry S. King" <tsking@ksu.edu>  
 Mime-Version: 1.0  
 Content-Type: text/plain; charset="us-ascii"



THE TAU BETA PI ASSOCIATION  
POSTPONED & FINANCIAL REFUSAL ELECTEES

Chapter Kansas Gamma

Date Spring 1998

The persons listed below were elected by your chapter during past initiation seasons as noted. They have refused membership for financial reasons (Constitution Article VIII, Section 10) or have simply missed attending a formal initiation. Unless their election is to be cancelled, at the option of your chapter, the following three options apply:

- A) Persons whose names appear on this list and who remain eligible for membership may be initiated at the next regular initiation without re-election. Such electees who graduate may be initiated without re-election within five years from the date of election.
- B) Persons listed who become academically ineligible *and* whose postponements have been *approved and documented* by the Advisory Board may be initiated at the next regular initiation.
- C) Persons listed who become ineligible and whose postponements have *not* been approved by the Advisory Board must become eligible again and be re-elected during a subsequent term in order to be initiated.

If it is inconvenient for them to return to your chapter for initiation, arrangements can be made through the National Headquarters for their initiation by chapters near their homes.

Please indicate the action to be taken on each electee listed; i.e., **To be initiated on** \_\_\_\_\_ (date); Election cancelled by the chapter; Continue financial refusal or postponed status; etc.

**RETURN THIS SHEET WITH YOUR REPORT OF ELECTION**

| Name & Class          | Status / Date Elected | Advisory<br>Board Approval | Re: Key<br>Chapter has | Action by Chapter                   |
|-----------------------|-----------------------|----------------------------|------------------------|-------------------------------------|
| Michael A. Bernhardt, | '00 Post - Spr 1998   | Approved                   |                        | To be initiated<br>on Oct. 10, 1998 |
|                       |                       |                            |                        |                                     |
|                       |                       |                            |                        |                                     |
|                       |                       |                            |                        |                                     |
|                       |                       |                            |                        |                                     |



STUDENT INITIATES, C-VIII, SECTIONS 2 & 3:

|                                    |      |
|------------------------------------|------|
| Michael Andrew Bernhardt           | 2000 |
| <sup>Kuentai</sup><br>Kuentai Chen | 1998 |
| Craig Alan Claassen                | 2000 |
| Todd E. Dobberstein                | 2000 |
| Maki Ishida                        | 2000 |
| Carl Travis Johnson                | 1999 |
| Richard J. Johnson                 | 1999 |
| John Eugene Kelly                  | 1999 |
| Sara Faith Kibbe                   | 2000 |
| Matthew Alex Kohls                 | 2000 |
| Doug Allan Lupher                  | 2000 |
| Marshall Lee Moluf                 | 1999 |
| Brandon Michael Oberling           | 2001 |
| Ginger Susan O'Haver               | 2001 |
| Andrew Blaine Peterson             | 2000 |
| Andrew Clayton Prentice            | 2000 |
| William Douglas Ramsey             | 2000 |



## Kansas Gamma

### Sections 2 & 3 continued:

|                        |      |
|------------------------|------|
| Brett Alan Randall     | 2000 |
| Calvin Eugene Reed     | 2001 |
| Jerry Michael Sipes    | 1998 |
| Stephen So             | 1999 |
| Nathan C. Stockman     | 2000 |
| Steven Nicholas Sturis | 2000 |
| Wade Akira Takeguchi   | 2000 |
| Minh P. Tran           | 2000 |
| Kevin Michael Wanklyn  | 2000 |
| Daniel Evan Will       | 2000 |



Kansas Gamma

October 10, 1998

EMINENT ENGINEER INITIATE, C-VIII, SEC. 6:

Anil Pahwa

1975

(Birla Institute of Technology)



11/20/98

Dr. Fowler →

chief xltion

just  
SD

regular admin

AS of 10/98

Shelley

Starnett

AD  
C.R.

will be

new

chief

G



THE TAU BETA PI ASSOCIATION, INCORPORATED

NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES

FOUNDED



1885

508 DOUGHERTY ENGINEERING HALL, UTK  
P.O. BOX 2697, KNOXVILLE, TENNESSEE 37901-2697  
423/546-4578, FAX: 423/546-4579, E-MAIL: tbp@tbp.org

JAMES D. FROULA, P.E.  
SECRETARY-TREASURER

2/23/99  
Roger E. Hawks  
for your student letter from chief advisor  
will put this week  
ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

**ELIGIBILITY ACKNOWLEDGEMENT OF CANDIDATES FOR ELECTION --  
THIS IS NOT YOUR OFFICIAL APPROVAL TO HOLD YOUR INITIATION.**

To the President of the  
Kansas Gamma

Chapter

Date February 18, 1999

\*\* Your Report of Eligibility has been received, thank you.

\*\* Your undergraduate student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 2.

Your graduate-student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 3, as follows: Tentative approval ONLY can be given to your graduate students, Karthi Keyan; Qiang Zeng; Viswanath Ganti; and Sivaram Gottimukkala, because the letter from their primary advisors don't state they have completed at least 50% of their

Your alumnus candidate(s) are judged to be eligible for election to membership under Constitution Article VIII, as follows:

degree requirements. This includes both coursework and research. Section 4(a)(1)(2)(3)(4)(5).\*

Please note that any changes such as additions or deletions or any adjustments made to

your Reports of Election and Final Action MUST be reported to Section 5(a)(1)(2)(3)(4)(5).\*

Headquarters. If we are not notified, it will affect your Headquarters' Section 6(a)(b).\*

grade for a Secretary's Commendation. 2/26/99. Letter from Chief Advisor

Robert W. Stokes -- Section 6(a) Charles R. Bissey -- Section 6(b) received

\*(All elections under Sections 4, 5, & 6 shall comply with the applicable provisions of Sec. 7.) Full approval

This letter is a judgment of the technical eligibility of these candidates for election to membership. Approval of their initiation will be given as soon as your Report of Election and Catalog Cards have been received.

Please be sure to enter, on the Report of Election, the proper action taken by your chapter on every eligible candidate, in accord with instructions on the report form.

When you send your Report of Election and a Catalog Card for each electee, keys and certificates will be ordered. Please remind electees that Catalog Cards are permanent records of their membership and that we need full names (no initials), legibly printed by each electee, class years, and proper mailing addresses.

If you requested electees' materials, including Constitution and Bylaws booklets, etc., and/or Bent castings on the Report of Eligibility, they are being shipped to you today. Creed cards were mailed earlier. If you will need motto slips for your initiates, please let me know when you send your Report of Election; you probably have a supply in your initiation kit.

CC: Shelli Starrett, Chief Advisor  
District 9 Directors

Approved by James D. Froula, P.E.  
James D. Froula, Secretary-Treasurer



## RESUME

*HS Gamma  
Spring '99  
Eligibility  
see 6(b)*

**CHARLES R. BISSEY**

**Education:** B.S. Light Construction and Marketing,  
Colorado State University, 1957  
Master of Architecture, Kansas State University, 1961  
Additional Graduate Study, Structural Engineering  
University of Massachusetts  
University of Rhode Island

**Professional Registration:** Licensed Professional Engineer,  
State of Kansas, #8194, Structural  
EIT Exam score 93, P.E. Exam score 80

**Positions held:**

Assistant Professor - Associate Professor - Professor  
Department of Architectural Engineering and Construction Science, College of  
Engineering, Kansas State University, 1969-70 academic year to present.  
Instructor for courses in structural application and design, construction  
drawings, and computer applications and programming.  
Instructor - Assistant Professor  
School of Engineering, University of Massachusetts, 1961-1969. Instructor for  
courses in engineering graphics, computer applications, and statics.

**Current Research (within the past 5 years)**

Served as campus representative in the preparation of a research-testing proposal for  
the ARCOLA ENTERPRISES, Hutchinson, Kansas, through the Advanced  
Manufacturing Institute, College of Engineering, wood substitute using recycled waste  
materials, 1993, funded. Project completed 1997.

Served as campus representative in the preparation of a research-testing proposal for  
Xylan, a research company in Wisconsin, through the MAMTC Office, College of  
Engineering, wood substitute using recycled waste materials, 1993, funded. Project  
completed 1995.

**Professional Society Membership**

National Society of Professional Engineers  
Member of the Professional Engineers in Education Practice Section.  
Kansas Society of Professional Engineers and the Tri-Valley Chapter  
Secretary/Treasurer  
American Society for Engineering Education, Architectural Engineering Division  
Newsletter Editor  
Campus Representative for Kansas State University (14 years).  
American Institute of Constructors



## **Awards**

- Kansas Preservation Alliance, Inc., 1997 Award for Excellence for the structural design involved with the preservation of the Grimes House, Manhattan, Kansas.
- ASEE Midwest Section Outstanding Service Award, March 31, 1995. Award made during the ASEE Midwest Section meeting in Wichita, Kansas.
- ASEE 1993 Centennial Award for exemplary support for the Architectural Engineering Division.
- Recipient of the Halliburton Professorship, for the College of Engineering at Kansas State University, 1990-1991 and 1991-1992 academic years.
- Recipient of the 1988 Kansas State University Activities Board Advisor of the Year Award for work with the student chapter of the National Society of Architectural Engineers (NSAE) and the architectural engineering honor society Phi Alpha Epsilon.
- Recipient of the All-University AMOCO Foundation Award for Excellence in Undergraduate Teaching, Kansas State University, 1982.
- Recipient of the James Hollis Award for Excellence in Undergraduate Engineering Teaching, College of Engineering, Kansas State University, 1980.
- Link Foundation Fellow, awarded by School of Engineering, University of Rhode Island, for the academic year 1967-1968.

## **Honorary Membership**

- Phi Alpha Epsilon, 1984, by students in Architectural Engineering, Kansas State University.
- Sigma Lambda Chi, 1972, by students in Construction Science, Kansas State University.
- Tau Sigma Delta, 1971, by students in the College of Architecture, Kansas State University.
- Phi Eta Sigma, 1965, as an outstanding teacher at the University of Massachusetts.

## **Recent Publications and Papers**

Paper presentation, title: "Structural Analysis for Architectural Engineers," ASEE Annual Conference, Architectural Engineering Division, June 16-18, 1997, Milwaukee, Wisconsin.

Paper presentation, title: "Evaluation and Application of Manufactured Recycled Materials for the Construction Industry," ASEE Annual Conference, Architectural Engineering Division, June 25-28, 1995, Anaheim, California.

"Specifying Steel," Walls and Ceilings Magazine, August 1991, pages 14, 42, and 43.

Design Tables and Technical Information for Building Construction Using Cold-Formed Steel Members, manual for Steel Benders, Inc., January 1989, Report No. 206, Kansas State University. Engineering Experiment Station, 36 pages. Second updated manual for Steel Benders, Inc., April 1992, 56 pages, to conform to new design specifications.

Factors Involved to Obtain Long Life, Serviceable, Cost Effective Roof Systems, manual for Kansas Utilities Research Program, December 1987, 200 pages.



KS Gamma  
Spr '99  
E 1.2.  
Sec 6(a)

**DETAILED CURRICULUM VITAE  
ROBERT W. STOKES**

RECEIVED

FEB 18 1999

TAU BETA PI

## **QUALIFICATIONS**

Dr. Stokes has over 20 years of experience in general transportation planning and applied transportation research. He is currently Associate Professor of Civil Engineering at Kansas State University, where he teaches undergraduate and graduate level courses in highway design, transportation planning, land development, traffic engineering and engineering economics. Prior to joining the faculty of Kansas State in 1991, he was the senior transportation planner for the city of Rapid City, SD and, most recently, Program Manager of the Urban Mobility Program at the Texas Transportation Institute, Texas A&M University. During his ten years at the Texas Transportation Institute, he was responsible for designing, implementing and monitoring a number of applied transportation research projects under the sponsorship of local, regional, state and federal highway and public transportation agencies. Dr. Stokes has extensive experience in the design and implementation of urban, rural and intercity transportation planning studies; highway design, planning and operations; traffic engineering; design and operation of turning lanes; traffic safety; and transit planning, design and operations. Much of Dr. Stokes' work has been conducted in a multijurisdictional context which has required coordinating the efforts and priorities of various city, county and state agencies to develop workable solutions to real world transportation problems.

## **EDUCATION**

B.S. General Engineering, Antioch College, 1976.

M.S. Civil Engineering, Ohio State University, 1977 (Emphasis in travel demand modeling).

M.C.R.P. (City and Regional Planning), Ohio State University, 1978.

Ph.D. Urban and Regional Science, Texas A&M University, 1984 (Emphasis in transportation planning, statistics and traffic flow theory).

## **MEMBERSHIPS**

First United Methodist Church, Manhattan, KS (Member).

American Society of Civil Engineers (Member)

- Assistant Faculty Advisor, Kansas State University Student Chapter (1991-93).
- Faculty Advisor, Kansas State University Student Chapter (1993-1998).



- Assistant Faculty Advisor, Kansas State University Student Chapter (1998 - present).
- Control Group Member, Subdivision and Site Planning Standards Committee.
- Secretary, Education Committee, Urban Planning and Development Division.
- Member, Sustainable Development Committee, Urban Planning and Development Division.
- Focus Group, ASCE/Sloan Foundation Project *Leading Students Into the Future* (1997).
- Prepared TEAMS Problem for 1998 competition [TEAMS (Tests of Engineering Aptitude, Mathematics and Science) is a National Academy of Engineering sponsored High School competition that focuses on applied science and mathematics in engineering].
- President-Elect, Kansas Section ASCE, 1998-99.

#### **American Society for Engineering Education**

- Member, Committee on Undergraduate Education.

#### **Institute of Transportation Engineers**

- Faculty Advisor, Texas Southern University Student Chapter (1987-91).
- Chairman, ITE Technical Council Committee 5P-5, Capacities of Multiple Left Turn Lanes.
- Chairman, ITE Technical Council Committee 5S-1, Capacities of Triple Left Turn Lanes.
- Member, ITE Technical Council Committee 2-33, Graduate Curricula for Future Transportation Engineers.
- Member, Transportation Educators Council.
- Member, Transportation Planners Council.
- "Friend of the Committee," ITE Technical Council Committee 5P-8, Traffic Planning for Neo-Traditional New Town Development.



### **Missouri Valley Section ITE (MOVITE)**

- Director (1997-98)

### **Kansas Association for Uniform Traffic Control (KAUTC)**

- Treasurer (1996-97).
- Secretary (1997-98)
- Vice President (1998-99)

### **American Planning Association (APA)**

- Chairman, TXAPA Transportation Department (1990)

### **American Institute of Certified Planners (AICP)**

### **Tau Sigma Delta**

### **Order of the Engineer**

**Transportation Research Board Committee A1D01, Statewide Multimodal Transportation Planning (Member).**

**Transportation Research Board Committee A5002, Low Volume Roads ("Friend of the Committee").**

### **AWARDS**

**Special Recognition Award, Texas Section ITE, 1986.**

**Special Recognition Award, Texas Section APA, 1990.**

**Nominee, 1993 Hollis Teaching Award, College of Engineering, Kansas State Univ.**

**Dwight David Eisenhower Faculty Fellowship, USDOT, 1994.**

**ITE 1996 Traffic Engineering Council Outstanding Council Project Award ("Capacities of Triple Left Turn Lanes - An Informational Report," ITE Technical Council Committee 5P-5A).**

### **COMMUNITY SERVICE**

**Manhattan, KS Urban Area Planning Board**



Member, 1992 - Present.  
Chair, 1996 - 97.

Riley County KS Road and Bridge Advisory Committee, Vice Chair (1997-98).

Steering Committee, Manhattan KS Comprehensive Transportation Study, 1998-99.

### **MILITARY/NATIONAL SERVICE**

US Army, 1969-1972. CH-47 Helicopter Gunner/Crew Chief. Vietnam veteran (1970-71). Recipient of National Defense Service Medal, Republic of Vietnam Service Medal (w/2 Bronze Service Stars), Republic of Vietnam Campaign Medal and Air Medal. Honorably Discharged 1972.

Volunteers in Service to America (VISTA), 1973-74. "Domestic Peace Corps" volunteer, rural South Carolina. Served as liaison between local minority community organizations and city and county public works and community service agencies. Designed and constructed playground equipment in minority neighborhoods and advised minority groups on small-scale street, drainage and housing improvement projects.

### **PROFESSIONAL EXPERIENCE**

Associate Professor, Department of Civil Engineering, Kansas State University, 1991-Present.

Program Manager, Urban Mobility Program, Texas Transportation Institute, Texas A&M University, 1987-1991.

Adjunct Professor of Transportation, Texas Southern University, 1985-1990.

Associate Research Planner, Urban Mobility Program, Texas Transportation Institute, Texas A&M University, 1983-1991.

Research Associate, Urban Mobility Program, Texas Transportation Institute, Texas A&M University, 1981-1983.

Senior Transportation Planner, City of Rapid City, South Dakota, 1978-1981.

### **TEACHING EXPERIENCE**

Texas Southern University (Graduate Level Courses)

- Travel Demand Forecasting I
- Travel Demand Forecasting II



- Systems Analysis in Transportation
- Introduction to Transportation Engineering
- Public Transportation Planning, Management and Operations

**Kansas State University** (Undergraduate and Graduate Level Courses)

- Engineering Assembly (U)
- Honors Research (U)
- Route Location and Design (U)
- Transportation Planning (U)
- Highway Engineering and Management (U)
- Economics of Construction and Design (U/G)
- Regional Planning Engineering (U/G)
- Traffic Engineering I (G)
- Traffic Engineering II (G)
- Public Transportation (U/G)

**THESIS/DISSERTATION SUPERVISION**

**Theses**

- Washington, E.J. Land Use Impacts of Houston's North Freeway (I-45N) Transitway, Texas Southern Univ., Houston, TX, 1987.
- Ogobomon, G.O. A Study of the Impact of Airport Noise on a Neighborhood in Houston, Texas, Texas Southern Univ., Houston, TX, 1988.
- Airiohuodin, C.U. An Evaluation of the Impact of Airport Anti-Terrorist Measures on Passenger's Perception of Safety, Texas Southern Univ., Houston, TX, 1988.
- Ohaegbulem, S.E. Turnkey Park-and-Ride Lot Development in Houston: Problems and Prospects, Texas Southern Univ., Houston, TX, 1988.
- Kpadopi, A.O. Evaluation of the Effects of Some Critical Safety and Service Factors on Airline Travel Frequency: A Case Study of Hobby Airport, Houston, Texas, Texas Southern Univ., Houston, TX, 1990.
- Byers, C.L. An Examination of Project Management in a Transit Agency, Texas Southern Univ., Houston, TX, 1990.
- Marucci, G. Development of a Prototype GIS-Based Accident Mapping Program for Kansas, Kansas State Univ., Manhattan, KS, 1993.



Vellanki, B.K. Evaluation of Parking on the Kansas State University Campus, Kansas State Univ., Manhattan, KS, 1994.

Naini, V.R. Forecasting Truck Traffic by Vehicle Type on Rural Highways in Kansas, Kansas State Univ., Manhattan, KS, 1994.

Roy, J. Factors Affecting Speeds on State Highways in Kansas, Kansas State Univ., Manhattan, KS, 1997.

### Dissertations

Hasan, T. Development and Testing of a Model for Right Turns at Unsignalized Intersections, Kansas State Univ., Manhattan, KS, May 1998.

## **CURRICULUM DEVELOPMENT**

### New Courses (Kansas State University)

- CE 511: Computer-Aided Highway Design (Spring Intersession).
- CE 816a: Public Transportation Planning, Design and Operations. Developed in cooperation with the Mid-America Transportation Center (scheduled for Spring 1996).

### New Instructional Approaches (Kansas State University)

- Developed and implemented basic instruction in the use of computer software for economic analysis and project scheduling (CE 680: Economics of Design and Construction).
- Developed and implemented basic instruction in the use of intersection simulation/animation software (CE 775 and CE 875: Traffic Engineering I and II).
- Developed and implemented a design team approach to the preparation and presentation of a comprehensive highway location and design project (CE 411: Route Location and Design).
- Developed and implemented basic instruction in the use of computer-aided design software in CE 411 (Route Location and Design) and CE 686 (Regional Planning Engineering).
- Developed and implemented local transportation problem case studies as instructional tools in CE 411, CE 680, CE 686, CE 775 and CE 875.



- Introduced expanded technical report writing and oral presentations as basic course requirements in CE 411, CE 680, CE 686, CE 775 and CE 875.
- Developed and implemented a cooperative student/instructor technical paper writing project/competition in CE 875 (Traffic Engineering II).

#### **EXTENSION SERVICE (Kansas State University)**

- Developed and delivered "Tutored Video" instruction for CE 686 (Regional Planning Engineering) for Wichita State University, Fall 1992.
- Delivered off-campus instruction in CE 775 (Traffic Engineering I) in Topeka, KS, Fall 1993 and 1995.
- Developed and delivered "Tutored Video" instruction for CE 775 (Traffic Engineering I) for Wichita State University, Fall 1994.
- Delivered off-campus instruction in CE 875 (Traffic Engineering II) in Topeka, KS, Spring 1997.
- Major Professor (Advisor) for six off-campus MSCE candidates (3 completed, 3 in progress).

#### **DEPARTMENT, COLLEGE AND UNIVERSITY SERVICE (Kansas State University)**

- CE Line Schedule Committee (Chair, 1992).
- CE Open House Chairman (1994-98).
- CE Equipment Needs Committee.
- CE Graduate Studies Committee.
- College of Engineering Continuing Education Committee (1991-94).
- College of Engineering Honors Committee (1991-94).
- CE Ad Hoc Committee on Development of Faculty Annual Expectations and Assessments (1996).
- CE Representative, Engineering Scholarship Day (1991-1993).
- Conducted EIT Review Session on Engineering Economics for Pi Tau Sigma,



Spring 1992.

- Served as Faculty Consultant on Transportation Topics for CE Senior Capstone Design Project (1992-1998).
- Guest Lecturer (Introduction to Transportation Planning), Department of Regional and Community Planning (Fall 1991-97).
- CE Representative, 1993 Mid-America Consortium for Engineering and Science Achievement (MACESA) Summer Institute.
- College of Engineering Representative, College of Architecture and Design Teleconference on proposed Transamerica Transportation Corridor (Jan. 14, 1994).
- College of Engineering Course and Curriculum Committee.
- Physical Sciences Subcommittee, KSU Graduate Council (1997-2000).  
Chair, 1998-99.
- Conducted EIT Review Sessions in Engineering Economics and Highway Design, Spring 1997.
- University Council on Parking Operations (1997-2000).
- CE Committee on College of Engineering Objectives, Chair (1998).

#### CONTINUING EDUCATION

- ASCE Zone III Workshop for Student Chapter Leaders (ASCE), Kansas City, MO, Feb. 1-2, 1992.
- Roadside Design Training Course (Federal Highway Administration), Topeka, KS, Feb. 12-13, 1992.
- Travel Forecasting with Microcomputers: The Quick Response Approach (University of Tennessee), Knoxville, May 14-16, 1992.
- Use of Civil Engineering Automation Library (CEAL) Software (CLM Systems, Inc.), Tampa, FL, July 27-30, 1992.
- Traffic Control Software and Signalization (National Highway Institute), Lenexa, KS, Oct. 27-28, 1992.



- ASCE Zone III Workshop for Student Chapter Leaders (ASCE), Denver, CO, Feb. 5-6, 1993.
- Corridor Preservation Techniques and Applications (National Highway Institute), Kansas City, MO, June 22-24, 1993.
- Construction Quality Management for Managers (Federal Highway Administration), Wichita, KS, Feb. 1-2, 1994.
- ASCE Zone III Workshop for Student Chapter Leaders (ASCE), St. Louis, MO, Feb. 11-13, 1994.
- Kansas Quality Initiative Seminar (Kansas DOT), Wichita, KS, Sept. 20-21, 1994.
- Geometric Design Workshop (Traffic Institute), Northwestern Univ., Evanston, IL, Oct. 3-14, 1994.
- ASCE Zone III Workshop for Student Chapter Leaders (ASCE), Chicago, IL, Feb. 10-12, 1995.
- 1995 ASCE Civil Engineering Education Conference (ASCE), Denver, CO, June 8-11, 1995.
- ASCE Zone III Workshop for Student Chapter Leaders (ASCE), Dallas, TX, Feb. 9-11, 1996.
- Fundamentals of Effective Project Management (Rockhurst College Continuing Education Center, Inc.), Topeka, KS, July 18-19, 1996.
- ASCE Zone III Workshop for Student Chapter Leaders (ASCE), Kansas City, MO, Feb. 7-9, 1997.
- FHWA Regional Traffic Safety Data Workshop, Kansas City, MO, June 3-5, 1997.
- Eagle Point Software Educational Summit, Dubuque, IA, July 30-31, 1997.
- ASCE Zone III Workshop for Student Chapter Leaders (ASCE), Milwaukee, WI, Mar. 6-8, 1998.

#### **BOOK, PAPER, PROPOSAL REVIEWS AND CONFERENCE PLANNING**

- Proposal Reviewer. US Department of Agriculture Small Business Innovation



Research Program, 1994-1995.

- Paper Reviewer/Referee, Transportation Research Board Committee A5002 (Low Volume Roads), 1992.
- Book Reviewer. *A Guide to Environmental and Site Planning, Third Edition*, by Harvey Rubenstein. Prepared for John Wiley & Sons, Inc., April 1994.
- Planning Committee, 74th, 75th, 76th, 77th and 78th Annual Kansas Transportation Engineering Conferences.
- Session Presider, 75th and 77th Annual Kansas Transportation Engineering Conferences.
- Organizing Committee, 1st Canadian Society for Civil Engineering (CSCE) Transportation Conference, Edmonton, Alberta, May 30-June 1, 1996.
- Session Chair, 1st Canadian Society for Civil Engineering (CSCE) Transportation Conference, Edmonton, Alberta, May 30-June 1, 1996.
- Conference Facilitator, 1995 ASCE Civil Engineering Education Conference, Denver, CO, June 8-11, 1995.
- Paper Reviewer/Referee, *Accident Analysis and Prevention*, Pergamon Press, 1995.
- Conference Co-Director, 78th Annual Kansas Transportation Engineering Conference, Manhattan, KS, April 11-12, 1996.
- Program Committee, Conference on Advanced Transportation Systems, 30th International Symposium on Automotive Technology and Automation (ISATA), Florence, Italy, June 16-19, 1997.
- Planning Committee, Rural Intelligent Transportation Systems (ITS) Workshop, Topeka, KS, July 29, 1996.
- Technical Committee and Session Chair, 2nd Canadian Society for Civil Engineering (CSCE) Transportation Conference, Halifax, Nova Scotia, June 10-13, 1998.
- Conference Director, Kansas Transportation Engineering Conference, 1997 - present.
- Session Coordinator/Moderator, 1997 ASCE Annual Meeting and Exposition,



Minneapolis, MN, Oct. 5-9, 1997.

- Program Committee, 31st International Symposium on Automotive Technology and Automation (ISATA), Dusseldorf, Germany, June 2-5, 1998.
- Organizing Committee, 3rd Canadian Society for Civil Engineering (CSCE) Transportation Conference, London, Ontario, June 2000.

## **FUNDED RESEARCH**

Sponsor: USDOT (Federal Highway Administration) and Texas DOT.  
Title: "Manual for Planning, Design and Operation of Transitways in Texas."  
Amount (Year): \$150,000 (1984).  
Role: Co-Principal Investigator (with J.M. Mounce).

Sponsor: USDOT (Federal Highway Administration) and Texas DOT.  
Title: "Truck Operations and Regulations on Urban Freeways."  
Amount (Year): \$65,000 (1984).  
Role: Co-Principal Investigator (with W.R. McCasland).

Sponsor: USDOT (Federal Highway Administration) and Texas DOT.  
Title: "Traffic Control Guidelines for Major Incident Response."  
Amount (Year): \$75,000 (1984).  
Role: Co-Principal Investigator (with J.M. Mounce and W.R. McCasland).

Sponsor: USDOT (Federal Transit Administration) and Texas DOT.  
Title: "Land Use and Funding Impacts of a Permanent Busway/Park-and-Ride Transit System."  
Amount (Year): \$80,000 (1985).  
Role: Co-Principal Investigator (with R.L. Peterson).

Sponsor: USDOT (Federal Highway Administration) and Texas DOT.  
Title: "Measuring the Benefits of Increased Land Accessibility Due to Highway Projects."  
Amount (Year): \$75,000 (1986).  
Role: Principal Investigator.

Sponsor: USDOT (Federal Transit Administration) and Texas DOT.  
Title: "Planning Guidelines for Suburban Transit Services."  
Amount (Year): \$75,000 (1987)  
Role: Principal Investigator.

Sponsor: Texas DOT.  
Title: "Austin/San Antonio Intercity Route Study."  
Amount (Year): \$150,000 (1987)



Role: Principal Investigator.

Sponsor: USDOT (Federal Transit Administration)

Title: "Development of HOV Lane Demand Estimation Model."

Amount (Year): \$80,000 (1988).

Role: Co-Principal Investigator (with J.D. Benson).

Sponsor: USDOT (Federal Highway Administration) and Texas DOT.

Title: "Factors Affecting Appraised Values in Highway Land Acquisition Cases."

Amount (Year): \$65,000 (1988).

Role: Principal Investigator.

Sponsor: USDOT (Federal Highway Administration) and Texas DOT.

Title: "Guidelines for Planning, Designing and Operating Transit Related Street Improvements."

Amount (Year): \$125,000 (1989).

Role: Co-Principal Investigator (with T. Urbanik and K. Fitzpatrick).

Sponsor: USDOT (Federal Transit Administration) and Texas DOT.

Title: "Transit Research Needs in Texas."

Amount (Year): \$65,000 (1989)

Role: Principal Investigator.

Sponsor: USDOT (Federal Highway Administration) and Texas DOT.

Title: "Implementation of a Mezzo Level Carpool Demand Model for Texas."

Amount (Year): \$75,000 (1989)

Role: Co-Principal Investigator (with J.D. Benson).

Sponsor: Texas Medical Center, Houston, TX.

Title: "Parking Management Plan for the Texas Medical Center."

Amount (Year): \$75,000 (1989)

Role: Co-Principal Investigator (with J.D. Blaschke).

Sponsor: USDOT (Federal Highway Administration) and Texas DOT.

Title: "Economic Development Impacts of Expenditures for Highway Improvements in Texas."

Amount (Year): \$55,000 (1990).

Role: Principal Investigator.

Sponsor: Kansas DOT.

Title: "Development of a Prototype GIS-Based Accident Mapping Program for Kansas."

Amount (Year): \$40,000 (1993).

Role: Principal Investigator.

Sponsor: Kansas DOT.



Title: "Evaluation of Corridor Right-of-Way Preservation Programs for Kansas."  
Amount (Year): \$35,000 (1993).  
Role: Principal Investigator.

Sponsor: Kansas DOT.

Title: "Forecasting Truck Traffic by Vehicle Type on Rural Highways in Kansas."  
Amount (Year): \$43,000 (1993)  
Role: Co-Principal Investigator (with E.R. Russell and M.W. Babcock).

Sponsor: Kansas DOT.

Title: "Computerized Sign Inventory Feasibility Study."  
Amount (Year): \$25,000 (1994).  
Role: Co-Principal Investigator (with H.G. Melhem and C.E. Kurt).

Sponsor: Kansas DOT.

Title: "Intersection and Intersection-Related Accident Rates for State Highways."  
Amount (Year): \$40,000 (1994).  
Role: Principal Investigator.

Sponsor: Kansas DOT.

Title: "Motorist Understanding of Traffic Control Devices in Kansas."  
Amount (Year): \$40,000 (1994).  
Role: Co-Principal Investigator (with E.R. Russell and M.J. Rys).

Sponsor: Kansas DOT.

Title: Warrants for Right Turn Lanes at Unsignalized Intersections and Driveways.  
Amount (Year): \$40,000 (1995).  
Role: Principal Investigator.

Sponsor: USDOT (Mid-America Transportation Center) and Kansas DOT.

Title: "Transit Needs Assessments for Major Midwest Cities."  
Amount (Year): \$46,000 (1995).  
Role: Principal Investigator.

Sponsor: USDOT (Mid-America Transportation Center) and Kansas State University.

Title: "Assessment of the Need for a Regional Rural Public Transportation Research Center."  
Amount (Year): \$28,000 (1995).  
Role: Principal Investigator.

Sponsor: Kansas DOT.

Title: "Speed Zoning Guidelines Using Roadway Characteristics and Area Development."  
Amount (Year): \$40,000 (1995).  
Role: Co-Principal Investigator (with E.R. Russell).



Sponsor: USDOT (Mid-America Transportation Center) and Kansas DOT.  
Title: "Transit Needs Assessments for Major Midwest Cities (Year 2)."  
Amount (Year): \$36,900 (1996).  
Role: Principal Investigator.

Sponsor: USDOT (Mid-America Transportation Center) and Kansas DOT.  
Title: "Review of the Effectiveness, Location, Design and Safety of Passing Lanes."  
Amount (Year): \$78,935 (1996).  
Role: Co-Principal Investigator (with E.R. Russell).

Sponsor: Kansas DOT.  
Title: "Feasibility of Automated Motor Vehicle Accident Reporting System."  
Amount (Year): \$45,000 (1996).  
Role: Principal Investigator.

Sponsor: USDOT (Mid-America Transportation Center) and Kansas DOT.  
Title: "Guidelines for Design of 3R Projects for Multiple Design Speeds."  
Amount (Year): \$49,200 (1997).  
Role: Principal Investigator.

Sponsor: USDOT (Mid-America Transportation Center) and Kansas DOT.  
Title: "Impacts of Raising the Speed Limit on Kansas Highways (Phase I)."  
Amount (Year): \$41,900 (1997).  
Role: Co-Principal Investigator (with Y.N. Najjar).

Sponsor: USDOT (Mid-America Transportation Center) and Kansas DOT.  
Title: "Analysis of Rural Intersection Accidents Caused by Stop Sign Violation and Failure to Yield Right-of-Way."  
Amount (Year): \$49,200 (1997).  
Role: Co-Principal Investigator (with E.R. Russell and M.J. Rys).

Sponsor: USDOT (Mid-America Transportation Center) and Kansas DOT.  
Title: "Object Markers at Narrow Bridges."  
Amount (Year): \$47,120 (1997).  
Role: Co-Principal Investigator (with M.J. Rys).

Sponsor: Mack-Blackwell Transportation Center.  
Title: "Object Markers at Narrow Bridges."  
Amount (Year): \$20,440 (1997).  
Role: Co-Principal Investigator (with M.J. Rys).

Sponsor: USDOT (Mid-America Transportation Center) and Kansas DOT.  
Title: "Long range Plan to Improve Quality, Use and Understanding of the Traffic Records Data



Bases Maintained by KDOT."

Amount (Year): \$38,875 (1998).

Role: Principal Investigator.

Sponsor: USDOT (Mid-America Transportation Center) and Kansas DOT.

Title: "Effectiveness of 2-Way STOP Signs at Low Volume Intersections."

Amount (Year): \$43,000 (1998).

Role: Co-Principal Investigator (with Y.M. Najjar).

## **TRAINING/EDUCATIONAL GRANTS**

Sponsor: CLM Systems, Inc.

Title: Civil Engineering Automation Library (CEAL) Software Educational Grant.

Amount (Year): \$23,000 (1992).

Role: Principal Investigator.

Sponsor: USDOT (Federal Highway Administration).

Title: Dwight David Eisenhower Faculty Fellowship.

Amount (Year): \$5,000 (1994).

Role: Recipient.

Sponsor(s): Kansas State Univ., KDOT, Mid America Transportation Center.

Title: Summer Minority/Women Transportation Engineering Intern Program.

Amount (Year): \$2,997 (1996).

Role: Co-Principal Investigator (with E.R. Russell).

Sponsor(s): Kansas State Univ.

Title: Minority Transportation Engineering Scholarships (2).

Amount (Year): \$4,350 (1996).

Role: Co-Principal Investigator (with E.R. Russell).

Sponsor(s): Kansas State Univ. and Mid America Transportation Center.

Title: Minority Practitioner in Residence.

Amount (Year): \$2,900 (1996).

Role: Co-Principal Investigator (with E.R. Russell).

## **CONSULTING**

Willamette Valley/Rogue Valley Origin-Destination Survey, Kittelson and Associates, Inc.,  
Portland, OR, 1994.

San Luis Obispo Council of Governments Route 101 Corridor Major Investment Study, Kittelson  
and Associates, Inc., Portland, OR, 1994.



Traffic Forecasts for Page Avenue Extension, U.S. Corps of Engineers, Kansas City District, Kansas City MO, 1995.

## **PRESENTATIONS**

Simplified Trip Generation Analysis for Small Urban Areas: One City's Experience. Paper presented at Spring meeting of Intermountain ITE, Jackson Hole, WY, May 1979.

Applications of Quick Response Travel Demand Estimation Procedures: Case Study. Presentation at FHWA Quick Response Travel Demand Estimation Short-Course, Denver, CO, 1980.

Computer Simulation to Compare Freeway Improvements. Paper presented at 63rd Annual Meeting of TRB, January 1984.

Application of an Algorithm for Estimating Freeway Trip Tables. Paper presented at 63rd Annual Meeting of TRB, January 1984.

Saturation Flows of Exclusive Double Left-Turn Lanes. Paper presented at 65th Annual Meeting of TRB, January 1986.

Design and Implementation of Intercity Origin-Destination Surveys. Paper presented at 68th Annual Meeting of TRB, January 1989.

Truck Operations and Regulations on Urban Freeways in Texas. Paper presented at 69th Annual Meeting of TRB, January 1990.

Corridor Preservation in Kansas. Presented at the 76th Annual Kansas Transportation Engineering Conference, Manhattan, KS, March 30-31, 1994.

A GIS-Based Accident "Pin Map" for Reno County Kansas. Poster Presentation at the Mid-America GIS Symposium, Kansas City, MO., May 2-4, 1994

Factors Affecting Truck Travel on Rural Highways. Paper presented at 1994 Annual Conference of the Canadian Society of Civil Engineering, Winnipeg, Manitoba, Canada, June 1-4, 1994.

Future Transit Needs. Opening Address, Transpo '94, North Central Flint Hills Area Agency on Aging, Salina, KS, June 15-16, 1994.

Global Environment and Continuing Education for Engineer-Planners. Presented at the 1994 ASCE Convention and Exposition, Atlanta, GA, Oct. 9-13, 1994.



- Capacities of Double and Triple Left-Turn Lanes. Meeting of the Kansas Association for Uniform Traffic Control, Wichita, KS, Sept. 7, 1994.
- Motorist Understanding of Traffic Control Devices in Kansas. Meeting of the Kansas Association for Uniform Traffic Control, Manhattan, KS, Dec. 7, 1994.
- Continuing Education for Engineer-Planners. Presented at 1995 ASCE Midwest Section Conference, Wichita, KS, March 29-31, 1995.
- Motorist Understanding of Traffic Control Devices in Kansas. Presented at the Missouri Valley Section ITE Spring 1995 Conference, Topeka, KS, May 3-5, 1995.
- Capacities of Double and Triple Left-Turn Lanes. 65th Annual ITE Meeting, Denver, CO, August 5-8, 1995.
- Motorist Understanding of Traffic Signs. Traffic Safety Seminar on Low Volume Roads. Kansas State University, Manhattan, KS, August 29-31, 1995.
- Setting Speed Limits. Traffic Safety Seminar on Low Volume Roads. Kansas State University, Manhattan, KS, August 29-31, 1995.
- Use of Non-Relational Data in a GIS Accident "Pin Map." 1995 Transportation Congress, 1995 ASCE Annual Convention and Exposition, San Diego, CA, October 22-26, 1995.
- Transportation Research at Kansas State University. Mid-America Transportation Center Transportation Seminar Series, Oct. 19, 1995.
- Motorist Understanding of Selected Warning Signs. Paper presented at 75th Annual Meeting, TRB, Washington, DC, Jan. 1996.
- Motorist Understanding of Traffic Control Devices in Kansas. 78th Annual Transportation Engineering Conference, Kansas State University, Manhattan, KS, April 11-12, 1996.
- Motorist Understanding of Traffic Control Devices in Kansas. 47th Annual Traffic Engineering Conference, University of Missouri-Columbia, Columbia, MO, April 23, 1996.
- Motorist Understanding of Warning Signs in Kansas. 1996 Canadian Society for Civil Engineering Annual Conference and 1st Transportation Specialty Conference, Edmonton, Alberta, Canada, May 29-June 1, 1996.
- Transit Needs Assessments for Major Urban Areas in Kansas. 1996 Annual Meeting of Kansas Public Transit Association, Hutchinson, KS, August 4-6, 1996.



- Study to Develop State Policy on Highway-Rail Grade Crossing Consolidation/Closure. 1996 Annual ASCE Convention and Exposition, Washington, DC, November 10-14, 1996.
- Guidelines for Right-Turn Treatments at Unsignalized Intersections and Driveways on Rural Highways. Presented at the 76th Annual Meeting of the Transportation Research Board, Washington, DC, January 12-16, 1997.
- Capacities of Double and Triple Left-Turn Lanes. Presented at the Missouri Valley Section ITE Spring 1997 Conference, Hot Springs, AR, March 12-14, 1997.
- Sustainable Development and Engineering/Planning Education. Presented at the Missouri Valley Section ITE Fall 1997 Conference, Omaha, NE, September 17-19, 1997.
- Sustainable Development and Engineering/Planning Education. 1997 Annual ASCE Convention and Exposition, Minneapolis, MN, October 5-8, 1997.
- Sustainable Development and Civil Engineering Education. Daniel W. Mead Session, 1997 Annual ASCE Convention and Exposition, Minneapolis, MN, October 5-8, 1997.
- Object Markers at Low Volume Rural Bridges. Spring Meeting, Kansas Association for Uniform Traffic Control, Wichita, KS, June 3, 1998.
- Guidelines for Right-Turn Treatments at Unsignalized Intersections on Rural Two-Lane Highways. 1998 Canadian Society for Civil Engineering Annual Conference and 2nd Transportation Specialty Conference, Halifax, Nova Scotia, June 10-13, 1998.
- Sustainable Development and Civil Engineering and Urban Planning Education in the United States and Canada. 1998 Canadian Society for Civil Engineering Annual Conference, Halifax, Nova Scotia, June 10-13, 1998.

## PUBLICATIONS

- Stokes, R.W. The Jitney: A Service Whose Time Has Come - Again. *ITE Journal*, May 1983.
- Stokes, R.W., D.L. Christiansen, and S.Z. Levine. Freeway Concurrent Flow High Occupancy Vehicle Lanes: Basic Considerations. *ITE Compendium of Tech. Papers*, 54th Annual ITE Meeting, 1984.
- Stokes, R.W. and J.M. Mounce. Computer Simulation to Compare Freeway Improvements. TRB, *Transportation Research Record* 971, 1984.
- Stokes, R.W. and D.E. Morris. Application of an Algorithm for Estimating Freeway Trip Tables. TRB, *Transportation Research Record* 976, 1984.



- Stokes, R.W., C.J. Messer and V.G. Stover. Left-Turns on Amber and Red From Exclusive Double Left-Turn Lanes. *ITE Journal Technical Notes*, January 1986.
- Stokes, R.W., C.J. Messer and V.G. Stover. Saturation Flows of Exclusive Double Left-Turn Lanes. TRB, *Transportation Research Record 1091*, 1986.
- Stokes, R.W., V.G. Stover and C.J. Messer. Use and Effectiveness of Simple Linear Regression to Estimate Saturation Flow at Signalized Intersections. TRB, *Transportation Research Record 1091*, 1986.
- Stokes, R.W. and W.R. McCasland. Truck Operations and Regulations on Urban Freeways in Texas. *ITE Journal*, Feb. 1986.
- Peterson, R.L. and R.W. Stokes. Speculations on the Future of Transportation. *ITE Journal*, April 1986.
- Stokes, R.W. and D.E. Morris. Use and Effectiveness of Synthetic Origin-Destination Data in a Macroscopic Freeway Simulation Model. *ITE Journal*, April 1986.
- Stokes, R.W. Comparison of Saturation Flow Rates at Signalized Intersections, *ITE Journal*, November 1988.
- Stokes, R.W. Some Factors Affecting Signalized Intersection Capacity. *ITE Journal*, January 1989.
- Stokes, R.W. and T. Chira-Chavala. Design and Implementation of Intercity Origin-Destination Surveys. TRB, *Transportation Research Record 1236*, 1989.
- Mullins, J.A. III, E.J. Washington and R.W. Stokes. Land Use Impacts of the Houston Transitway System. TRB, *Transportation Research Record 1237*, 1989.
- Turnbull, K.F., R.W. Stokes and R.H. Henk. Current Practices in Evaluating Freeway HOV Facilities. TRB, *Transportation Research Record 1299*, 1991.
- Stokes, R.W., et al. Capacities of Multiple Left-Turn Lanes. Prepared by ITE Technical Committee 5P-5 (R.W. Stokes, Chair), Institute of Transportation Engineers, *ITE Informational Report IR-065*, Washington, DC, 1993.
- Stokes, R.W. Factors Affecting Truck Travel on Rural Highways. *Proceedings*, 1994 Annual Conference of the Canadian Society of Civil Engineering, Winnipeg, Manitoba, Canada, June 1994.
- Stokes, R.W. Elasticity-Based Rural Traffic Forecasting Models. *Journal of Transportation*



*Engineering*, ASCE, March 1995.

Stokes, R.W. and G. Marucci. Geographic Information Systems for Transportation (GIS-T): Current Practices, Problems and Prospects. *ITE Journal*, March 1995.

Stokes, R.W., et al. Capacities of Triple Left-Turn Lanes. Prepared by ITE Technical Committee 5S-1 (R.W. Stokes, Chair), Institute of Transportation Engineers, *ITE Informational Report IR-077*, Washington, DC, 1995.

Stokes, R.W. Continuing Education for Engineer-Planners. *Proceedings*, 1995 ASCE Midwest Section Conference, Wichita, KS, March 29-31, 1995.

Stokes, R.W. Corridor Preservation for Two-Lane Rural Highways. *ITE Journal*, June 1995.

Stokes, R.W. et al. Capacities of Double and Triple Left-Turn Lanes. *Compendium of Technical Papers*, 65th Annual ITE Meeting, Denver, CO, August 5-8, 1995.

Stokes, R.W. The Global Environment and Continuing Education for Engineer-Planners. *Journal of Urban Planning and Development*, ASCE, Sept. 1995.

Stokes, R.W. and G. Marucci. Use of Non-Relational Data in a GIS Accident "Pin Map," *Proceedings*, 1995 Transportation Congress, 1995 ASCE Annual Convention and Exposition, San Diego, CA, October 22-26, 1995.

Stokes, R.W., M.J. Rys and E.R. Russell. Motorist Understanding of Warning Signs in Kansas. *Proceedings*, 1996 Canadian Society for Civil Engineering Annual Conference and 1st Transportation Specialty Conference, Edmonton, Alberta, Canada, May 29-June 1, 1996.

Stokes, R.W., M.J. Rys and E.R. Russell. Motorist Understanding of Selected Warning Signs. *ITE Journal*, August 1996.

Stokes, R.W. and M.I. Mutabazi. Rate-Quality Control Method of Identifying Hazardous Road Locations. *TRB, Transportation Research Record 1542*, 1996.

Russell, E.R., M. J. Rys, R.W. Stokes, Y.N. Najjar and J.L. Roy. Speed Zoning Guidelines From Multiple Linear Regression Models Using Roadway Characteristics and Area Development. *Proceedings*, 1997 Canadian Society for Civil Engineering Annual Conference, Sherbrooke, Quebec, May 27-30, 1997.

Russell, E.R., M.I. Mutabazi and R.W. Stokes. The Effectiveness, Location, Design and Safety of Passing Lanes in Kansas (USA). *Proceedings*, Traffic Safety on Two Continents, Lisbon, Portugal, September 22-24, 1997.



Hasan, T. and R.W. Stokes. Guidelines for Right-Turn Treatments at Unsignalized Intersections and Driveways on Rural Highways. TRB, *Transportation Research Record 1579*, 1997.

E.R. Russell, M.I. Mutabazi and R.W. Stokes. Safety and Operational Performance of Passing Lanes in Kansas. *Proceedings*, 9<sup>th</sup> REAAA Conference, Wellington, New Zealand, May 3-8, 1998.

Hasan, T. and R.W. Stokes. Guidelines for Right-Turn Treatments at Unsignalized Intersections on Rural Two-Lane Highways. *Proceedings*, 1998 Canadian Society for Civil Engineering Annual Conference and 2nd Transportation Specialty Conference, Halifax, Nova Scotia, June 10-13, 1998.

Stokes, R.W. Sustainable Development and Civil Engineering and Urban Planning Education in the United States and Canada. *Proceedings*, 1998 Canadian Society for Civil Engineering Annual Conference, Halifax, Nova Scotia, June 10-13, 1998.

Russell, E.R., M.I. Mutabazi and R.W. Stokes. Recommendations for Planning, Design and Signing of Passing Lanes on Two-Lane Highways. *Proceedings*, 1998 Canadian Society for Civil Engineering Annual Conference and 2nd Transportation Specialty Conference, Halifax, Nova Scotia, June 10-13, 1998.

Mutabazi, M.I., E.R. Russell and R.W. Stokes. Drivers' Attitudes, Understanding and Acceptance of Passing Lanes in Kansas. TRB, *Transportation Research Record 1628*, 1998.

## **FORTHCOMING PUBLICATIONS**

## **POSITION PAPERS**

Reforming Civil Engineering Education: Let's Start by Teaching the Teachers to Teach. Prepared for 1995 ASCE Education Conference Steering Committee, James T.P. Yao, Chair, Nov. 1994.

## **BOOK CHAPTERS**

Stokes, R.W. Transportation Engineering. In *Civil Engineering License Review*, 12th Ed., D.G. Newnan, ed. Engineering Press, Inc., San Jose, CA, 1995.

Stokes, R.W. Transportation Engineering. In *Civil Engineering License Problems and Solutions*, 12th Ed., D.G. Newnan, ed. Engineering Press, Inc., San Jose, CA, 1995.

Stokes, R.W. Transportation Engineering. In *EIT Civil Review*, D.G. Newnan, ed. Engineering



Press, Inc., Austin, TX, 1996.

Stokes, R.W. Transportation Engineering. In *EIT Civil Review*, 2nd Ed., D.G. Newnan, ed. Engineering Press, Inc., Austin, TX, 1998.

## RESEARCH REPORTS

### Public Transportation

Robinson, M. and R.W. Stokes. Rapid City Area Transit Development Program. City of Rapid City, SD, 1981.

Stokes, R.W. Rapid City Ground Transportation Terminal Facility: Environmental Assessment. City of Rapid City, SD, 1981.

Stokes, R.W. and D.L. Christiansen. Operational Evaluation of Proposed Gulf Freeway (I-45) Authorized Vehicle Lane (AVL). Texas State Department of Highways and Public Transportation, 1982.

Stokes, R.W. and D.L. Christiansen. The I-45N Contraflow Lane, Houston, Texas - An Assessment of the Operational Life. Texas State Department of Highways and Public Transportation, 1982.

Stokes, R.W. West Loop and Southwest Transitways: Demand Estimation. Metropolitan Transit Authority of Harris County, Texas, 1984.

Stokes, R.W. and J.M. Mounce. Design of Transitways: Review of Current Practice. Texas State Department of Highways and Public Transportation, 1984.

Mounce, J.M. and R.W. Stokes. Manual for Planning, Designing, and Operating Transitway Facilities in Texas. Texas State Department of Highways and Public Transportation, 1985.

McCasland, W.R., R.W. Stokes and J.M. Mounce. Transitway Surveillance, Communications and Control, Texas State Department of Highways and Public Transportation, 1986.

Stokes, R.W. and R.L. Peterson. Land Use and Innovative Funding Impacts in a Permanent Busway/Park-and-Ride Transit System: Annotated Bibliography. Texas State Department of Highways and Public Transportation, 1986.

Stokes, R.W., J.A. Mullins and E.J. Washington. Land Use Impacts of the Houston Transitway System: Summary Report. Texas State Department of Highways and Public Transportation, 1988.



- Washington, E.J. and R.W. Stokes. Planning Guidelines for Suburban Transit Services. Texas State Department of Highways and Public Transportation, 1988.
- Stokes, R.W. and D.L. Christiansen. North Freeway Transitway, Evaluation of Operations During 1987. Texas State Department of Highways and Public Transportation, 1988.
- Stokes, R.W. and J.A. Mullins. State of the Art in High-Occupancy Vehicle Lane Demand Estimation. USDOT, Federal Transit Administration, 1989.
- Fitzpatrick, K., T. Urbanik and R.W. Stokes. Guidelines for Planning, Designing and Operating Transit Related Street Improvements. Texas State Department of Highways and Public Transportation, 1990.
- Stokes, R.W. Transit Research Needs in Texas. Texas State Department of Highways and Public Transportation, 1990.
- Benson, J.D. and R.W. Stokes. Implementation of a Mezzo Level Carpool Demand Model for Texas. Texas State Department of Highways and Public Transportation, 1990.
- Stokes, R.W., T. Hasan and S.E. Bachman. Feasibility of a Regional Rural Public Transportation Research Center. Mid America Transportation Center, Sept. 1996.
- Stokes, R.W., T. Hasan and S.E. Bachman. Baseline Transit Needs Assessment Wichita, Kansas. Kansas Department of Transportation and Mid America Transportation Center, Sept. 1997.
- Stokes, R.W., T. Hasan and S.E. Bachman. Baseline Transit Needs Assessment Topeka, Kansas. Kansas Department of Transportation and Mid America Transportation Center, February 1998.
- Stokes, R.W., T. Hasan. Baseline Paratransit Needs Assessment Manhattan, Kansas. Kansas Department of Transportation and Mid America Transportation Center, February 1998.

#### **Transportation Planning/Management**

- Stokes, R.W. Development of Work Trip Modal Split Models for Columbus, Ohio Using 1970 Census Data. The Ohio State University, Master's Thesis, Dept. of City and Regional Planning, 1977.
- Stokes, R.W. Community Involvement in the Transportation Planning Process. City of Rapid City, SD, 1978.
- Stokes, R.W. Transportation Planning Prospectus: A Guide to the Local Transportation Planning



Process. City of Rapid City, SD, 1979.

Stokes, R.W. Financing Transportation Improvements in the Rapid City Area (1980-2000). City of Rapid City, SD, 1980.

Stokes, R.W. Planning for an Energy-Short Future: Selected Transportation Topics. City of Rapid City, SD, 1980.

Stokes, R.W. Simplified Travel Demand Forecasting Techniques for the Rapid City Area (4 Reports). City of Rapid City, SD, 1980-81.

Stokes, R.W., J.M. Mounce and D.E. Morris. Katy Freeway (I-10) Origin-Destination Study. Texas State Department of Highways and Public Transportation, 1982.

Stokes, R.W., D.E. Morris and G. Hawkins. Austin/San Antonio Origin-Destination Survey. Texas State Department of Highways and Public Transportation, 1988.

Stokes, R.W. and J.D. Blaschke. Parking Management Plan for the Texas Medical Center. Texas Medical Center, Inc., Houston, TX, Nov. 1990.

Stokes, R.W. and G.E. Dresser. Guidelines for Intercity Route Studies. Texas Department of Transportation, 1991.

Stokes, R.W., E.R. Russell and B. Vellanki. Recommended Corridor Preservation Program for Kansas Highways. Kansas Department of Transportation, 1993.

Stokes, R.W., M.W. Babcock, E.R. Russell and V.R. Naini. Forecasting Truck Traffic by Vehicle Type on Rural Highways in Kansas. Kansas Department of Transportation, 1993.

Kurt, C.E., Thor, C.E., H.G. Melhem and R.W. Stokes. Computerized Sign Inventory Feasibility Study. Kansas Department of Transportation, 1994.

Dresser, G.B., R.W. Stokes and M. Wade. Texas Department of Transportation Traffic Forecasting Practices. Texas Department of Transportation, 1995.

### Intersection Capacity

Stokes, R.W. Signalized Intersection Capacity. City of Rapid City, SD, 1979.

Stokes, R.W. Saturation Flows of Exclusive Double Left-Turn Lanes. Texas A&M University, Ph.D dissertation, 1984.

Hasan, T. and R.W. Stokes. Warrants for Right-Turn Lanes at Unsignalized Intersections:



Literature Review and Survey of Current Practices. Kansas Department of Transportation, 1994.

Hasan, T. and R.W. Stokes. Guidelines for Right-Turn Treatments at Unsignalized Intersections and Driveways. Kansas Department of Transportation, 1996.

### **Highway Safety**

Stokes, R.W. Rapid City Area Traffic Accident Study. City of Rapid City, SD, 1980.

Stokes, R.W. and W.R. McCasland. Truck Operations and Regulations on Urban Freeways. Texas State Department of Highways and Public Transportation, 1984.

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Sadeq, M.A., J. Roy, R.W. Stokes, E.R. Russell, Y. Najjar and M.J. Rys. Speed Zone Guidelines Using Roadway Characteristics and Area Development, Annotated Bibliography. Kansas Department of Transportation, 1995.

Stokes, R.W. Expected Value Accident Analysis for Kansas State Highway Intersections. Kansas Department of Transportation, 1995.

Stokes, R.W., E.R. Russell, Y.M. Najjar, M.J. Rys J.L. Roy and I.A. Basheer. Speed Zone Guidelines Using Roadway Characteristics and Area Development. Kansas Department of Transportation, 1997.

Stokes, R.W., J. Cavnar, C. Cochran and J.L. Roy. A Primer on Residential Traffic Management (RTM) Programs. Kansas Department of Transportation, 1997.



Stokes, R.W. Feasibility of an Automated Motor Vehicle Accident Reporting System for the State of Kansas. Kansas Department of Transportation, 1998.

Mutabazi, M., E.R. Russell and R.W. Stokes. Review of the Effectiveness, Location, Design and Safety of Passing Lanes in Kansas. Kansas Department of Transportation, 1997.

Rys, M.J., R.R. Pudi and R.W. Stokes. Object Markers at Narrow Bridges on Low Volume Rural Roadways. Kansas Department of Transportation, Mid-America Transportation Center and The Mack Blackwell Transportation Center, 1998.

### **Economics And Economic Development**

Washington, E.J., R.W. Stokes and G.C. Udenwa. Measuring the Benefits of Increased Land Accessibility Due to Highway Projects. Texas State Department of Highways and Public Transportation, 1987.

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Stokes, R.W., N. Pinnoi and E.J. Washington. Economic Development Impacts of Expenditures for State Highway Improvements in Texas. Texas State Department of Highways and Public Transportation, 1991.

### **Urban Planning (General)**

Stokes, R.W. Population Projections for Rapid City (1980-2000). City of Rapid City, SD, 1978.

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Stokes, R.W. Employment Projections for Rapid City and Pennington County, SD. City of Rapid City, SD, 1979.

Stokes, R.W. Annexation Cost/Benefit Analyses. City of Rapid City, SD, 1980.

Stokes, R.W. Development Assistance Handbook. City of Rapid City, SD, 1980.

Stokes, R.W. Rapid City Area 2000 Comprehensive Plan. City of Rapid City, SD, 1981.

**Robert W. Stokes, Ph.D.**  
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Department of Civil Engineering



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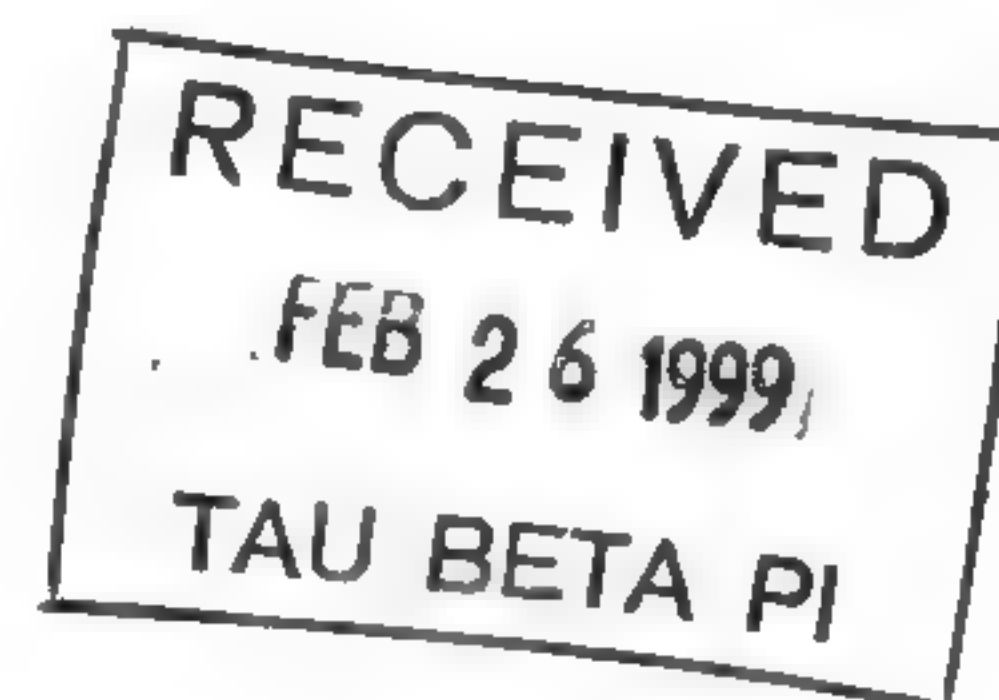


THE TAU BETA PI ASSOCIATION  
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KANSAS GAMMA CHAPTER  
KANSAS STATE UNIVERSITY  
MANHATTAN, KS 66506

February 25, 1999

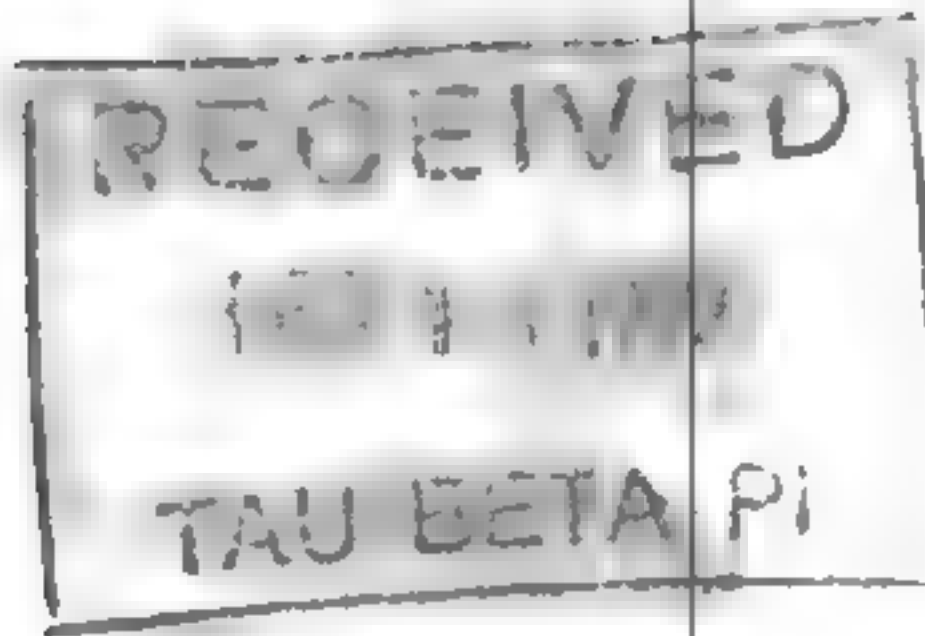
To whom it may concern:

This letter is written on behalf of the Kansas Gamma Chapter of Tau Beta Pi and signifies that Karthi Keyan, Qiang Zeng, Viswanath Ganti and Sivaram Gottimukkala have completed at least 50% of their graduate degree requirements, which includes both coursework and research. Because these graduate students are in the top 1/5 of their class and have completed at least 50% of their coursework, we feel they should be granted approval for election to membership under Constitution Art. VIII, Sec 3.

Sincerely,

Dr. Shelli Starrett  
Chief Advisor





Department of Computing and  
Information Sciences

234 Nichols Hall  
Manhattan, KS 66506-2302  
785-532-6350  
Fax: 785-532-7353

To Whom it May Concern:

I highly recommend Viswanath V Ganti for membership in Tau Beta Pi. Viswanath is a 4.0 student in the MSE program in the department of Computing and Information Sciences. He is doing very well in the program and on his MSE project.

Sincerely,

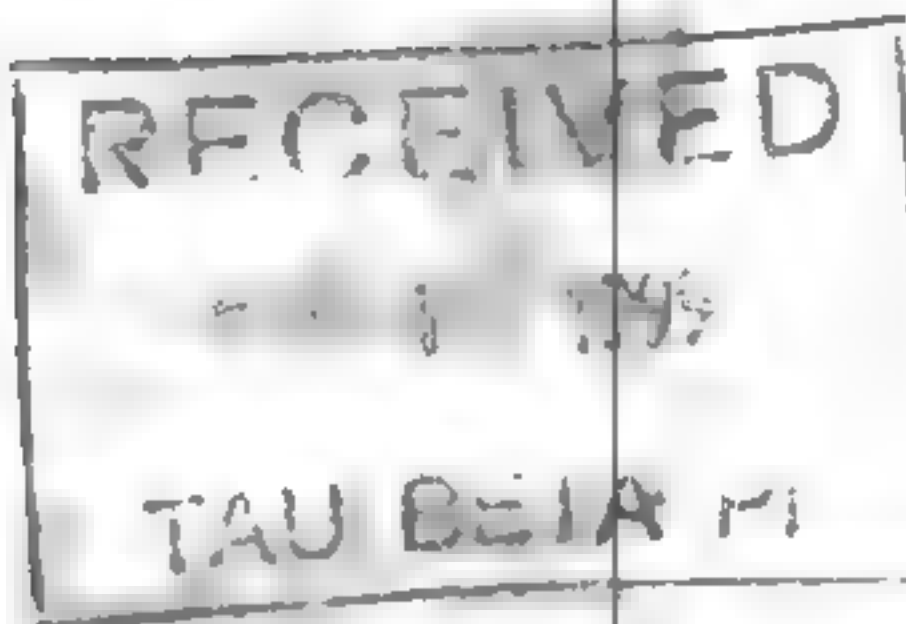
A handwritten signature in cursive script, appearing to read "David Gustafson".

David Gustafson, Professor

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Department of Computing and  
Information Sciences

234 Nichols Hall  
Manhattan, KS 66506-2302  
785-532-6350  
Fax: 785-532-7353

February 8, 1999

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To whom it may concern:

It is with great pleasure that I write this letter for Mr. Sivaram Gottimukkala in support of his induction into Tau Beta Pi. His current GPA is 4.0 out of 4.0 - clearly in the top twenty-five percent of his class. As part of his research assistantship, he is doing outstanding work.

Please feel free to contact me if you need any additional information.

Sincerely,

Mitchell L. Neilsen  
Assistant Professor  
E-mail: [neilsen@cis.ksu.edu](mailto:neilsen@cis.ksu.edu)

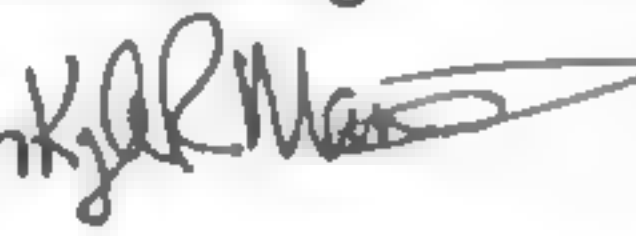


Gamma  
Spring 1999  
Eligibility



K-State Research and Extension  
Department of Biological  
and Agricultural Engineering  
College of Engineering  
147 Seaton Hall  
Manhattan, KS 66506-2906  
785-532-5580  
Fax: 785-532-5825

# MEMORANDUM

Date: 1/28/99  
To: Tau Beta Pi Nominating Committee  
From: Kyle R. Mankin   
Subject: R. (Karthi) Karthikeyan nomination

5090?

I wish to nominate R. (Karthi) Karthikeyan for membership in Tau Beta Pi. Karthi has an outstanding record of academic performance and currently maintains a 4.00 GPA based on 24 credits. His committee has approved his program of study for coursework as well as his Ph.D. research topic and proposal (Phytoremediation of Petroleum Hydrocarbons). He has already presented papers at three conferences in his first year and a half, and submitted abstracts for an additional two this year. He is well respected as a leader among his peers. Karthi comes to Kansas State highly regarded by faculty at University of Georgia, where he completed his M.S. in Agricultural Engineering (3.65/4.00 GPA).

Karthi is a truly exceptional student with a promising career ahead. He will make an excellent addition to the ranks of Tau Beta Pi members.

Kansas State University  
Agricultural Experiment  
Station and Cooperative  
Extension Service

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the basis of race, color,  
religion, national origin,  
sex, age, or disability

"Knowledge  
for Life"





Department of Computing and  
Information Sciences  
234 Nichols Hall  
Manhattan, KS 66506-2302  
785-532-6350  
Fax: 785-532-7353

To Whom it May Concern:

I highly recommend Qiang Zeng for membership in Tau Beta Pi. Qiang is a 4.0 student in the PhD program in the department of Computing and Information Sciences. He is doing very well in the program.

Sincerely,

A handwritten signature in cursive script, appearing to read "David Gustafson".

David Gustafson, Professor

5090?



THE TAU BETA PI ASSOCIATION, INCORPORATED

NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES

**PLEASE REMEMBER**  
Initiation fee of \$30 per initiate  
is due within 10 days of your  
initiation.

FOUNDED



1885

508 DOUGHERTY ENGINEERING HALL, UTK  
P.O. BOX 2897, KNOXVILLE, TENNESSEE 37901-2897  
423/546-4578, FAX: 423/546-4579, E-MAIL: tbp@tbp.org

Don't forget to send copy  
of Roll Book signatures  
with Report of Final Action.

JAMES D. FROULA, P.E.  
SECRETARY-TREASURER

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

**OFFICIAL APPROVAL TO HOLD YOUR INITIATION**

To the President of the Kansas Gamma Chapter: Date March 25, 1999

\*\* Your Report(s) of Election and Catalog Card(s) for eligible students have been received and your election of 14 undergraduate(s) is hereby approved, under Constitution Article VIII, Section 2.

\*\* Your Report(s) of Election and Catalog Card(s) for graduate-student, alumnus, and eminent engineer candidate(s) have been received and their election is hereby approved under Constitution Article VIII, as follows:

Oiang Zeng

Sec. 3

Sec. 4

Sec. 5

Robert W. Stokes and Charles R. Bissey Sec. 6

\*\* These 17 electee(s) are approved for initiation on May 3, 1999.

(NOTE: You may initiate postponed electees if and only if they are eligible for membership at the time of their initiation unless your Advisory Board approved and documented the postponements.)

\*\* We need Catalog Card(s) for the following electee(s): Robert Stokes and Charles Bissey --  
Their keys and certificates can't be ordered until we receive their cards.

13 Keys have been ordered for delivery as soon as possible. (They usually require 3-4 weeks for delivery.)  
You have keys for Kibbe and Randall.

15 Certificates have been ordered for delivery as soon as possible.

If you have questions or problems, please call Lanita or Rebecca.

Approved by

James D. Froula  
James D. Froula, Secretary-Treasurer

PLEASE BE SURE TO ACCOUNT FOR ALL ELECTEES, INCLUDING ALUMNI AND ANY FROM YOUR POSTPONED INITIATIONS LIST, ON YOUR REPORT OF FINAL ACTION! THE REPORT OF FINAL ACTION SHOULD BE SENT IMMEDIATELY AFTER YOUR INITIATION, WITH A PHOTOCOPY OF YOUR ROLL BOOK SIGNATURES. ALSO, DOCUMENT ANY APPROVED POSTPONEMENTS.



**THE TAU BETA PI ASSOCIATION  
POSTPONED & FINANCIAL REFUSAL ELECTEES**

**RECEIVED**

FEB 1 1999

Chapter Kansas Gamma

Date Spring 1999

**TAU BETA PI**

The persons listed below were elected by your chapter during past initiation seasons as noted. They have refused membership for financial reasons (Constitution Article VIII, Section 10) or have simply missed attending a formal initiation. Unless their election is to be cancelled, at the option of your chapter, the following three options apply:

- A) Persons whose names appear on this list and who remain eligible for membership may be initiated at the next regular initiation without re-election. Such electees who graduate may be initiated without re-election within five years from the date of election.
- B) Persons listed who become academically ineligible *and* whose postponements have been *approved and documented* by the Advisory Board may be initiated at the next regular initiation.
- C) Persons listed who become ineligible and whose postponements have *not* been approved by the Advisory Board must become eligible again and be re-elected during a subsequent term in order to be initiated.

If it is inconvenient for them to return to your chapter for initiation, arrangements can be made through the National Headquarters for their initiation by chapters near their homes.

Please indicate the action to be taken on each electee listed; i.e., **To be initiated on** MAY 3, 1999 (date); Election cancelled by the chapter; Continue financial refusal or postponed status; etc.

**RETURN THIS SHEET WITH YOUR REPORT OF ELECTION**

| Name & Class          | Status / Date Elected | Advisory<br>Board Approval | Re: Key<br>Chapter has | Action by Chapter   |
|-----------------------|-----------------------|----------------------------|------------------------|---------------------|
| Sara F. Kibbe, '00    | Post - Fall 1998      | Approved                   |                        | <u>Done 5/13/99</u> |
| Brett A. Randall, '00 | "                     | Approved                   | "                      | <u>Cont post</u>    |
|                       |                       |                            |                        |                     |
|                       |                       |                            |                        |                     |
|                       |                       |                            |                        |                     |



KS Gamma  
Fall 1999  
Eligibility  
Sec 6

**CHARLES L. BURTON**  
**766 COLLEGE HEIGHTS CIRCLE**  
**MANHATTAN, KANSAS 66502**  
**(785) 539-3146**

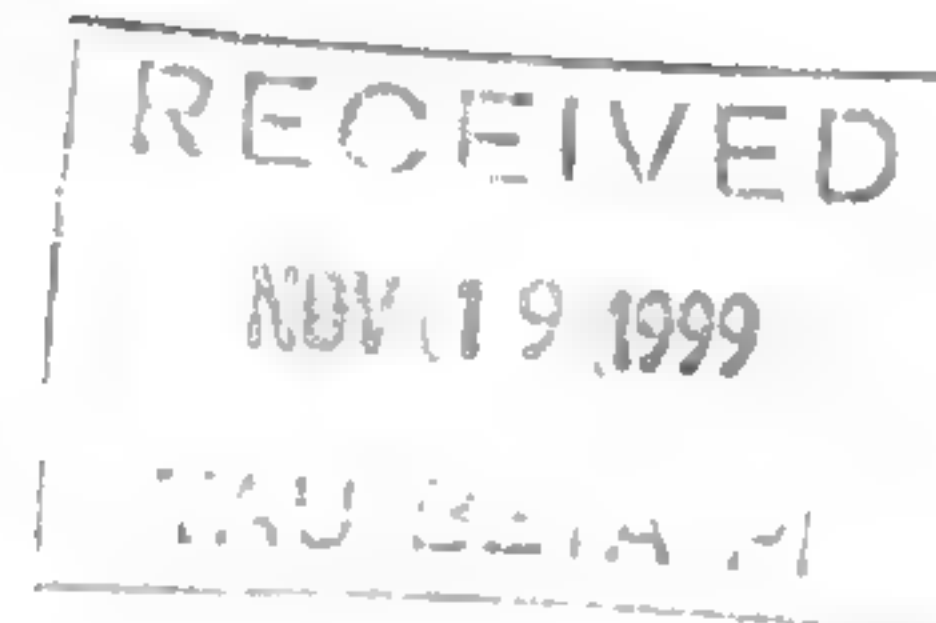
clb@ksu.edu

## **EDUCATION**

Independence Community College, Independence, Kansas  
Associate of Arts, June 1960

Kansas State University, Manhattan, Kansas  
B. S. Civil Engineering, January 1963

University of Kansas, Lawrence, Kansas  
M. S. Architectural Engineering, May 1975



## **LICENSES**

Mechanical and Electrical Engineer, State of Kansas  
Master Plumber  
Master Electrician  
Master Mechanical

## **ORGANIZATIONS**

American Society of Heating, Refrigerating and Air Conditioning Engineers  
Course Development Committee  
Illuminating Engineering Society  
Architectural Engineering Institute  
Associated General Contractors of America

## **HONORARIES**

Chi Epsilon – National Civil Engineering Honorary  
Sigma Lambda Chi – National Construction Scholastic Honorary  
Phi Theta Kappa – National Junior College Scholastic Honorary

## **AWARDS**

Hollis Award for Outstanding Undergraduate Teaching, College of Engineering, K.S.U.  
All-University Award for Outstanding Undergraduate Teaching, K.S.U.  
Halliburton Professor, Halliburton Foundation  
John Trimmer Teaching Award of Excellence, Associated Builders and Contractors  
Outstanding Educator Award, Associated General Contractors of America



## CHARLES L. BURTON

### WORK EXPERIENCE

Sept. 1970-June 1981

Aug. 1982-Present

Department of Architectural Engineering and Construction Science, K.S.U.  
Position – Professor; Department Head (1991-1996)

#### Courses Taught:

Thermal Systems – Covers the complete range of mechanical systems design from heating and cooling load calculations to complete refrigeration systems and energy analysis

Sanitation Systems; Water Supply and Sanitation; Advanced Plumbing – Cover the complete design of water, waste, fire protection and medical systems both interior and exterior

Lighting Systems; Building Electrical Systems – Cover the complete design of all electrical systems including primary power, building distribution systems and lighting of all types

Electrical-Mechanical Estimating – covers complete take-off and pricing of plumbing, mechanical and electrical materials for a construction project

Architectural Engineering Senior Project – Includes complete design of and working drawings for all mechanical, plumbing and electrical systems on a selected project.

Dec. 1979-Sept. 1980

Worked with Rich Kerschen and The Law Company to develop a productivity manual for their company operations.

June 1981-June 1982

The McIntosh Company, Tulsa, Oklahoma  
Position – Executive Vice-President, Operations

Assisted in overall management operations of mechanical contracting firm. Specific responsibilities were business management, accounting, marketing, chief project manager and chief estimator. Wrote complete project management manual for the company, established new estimating procedures and initiated overall operational changes including job costing, cost control and labor management.



## CHARLES L. BURTON

Sept. 1970-Present

Have continued to do extensive construction management consulting in addition to teaching. From Dec. 1973-Sept. 1974 was president of Construction Management, Inc. responsible for the following company services:

### Design Phase

1. Selection, in conjunction with owner, of architect-engineer to design project
2. Constant control over design, including value engineering
3. Constant cost control
4. Contract negotiation and/or bid letting
5. Construction scheduling

### Construction Phase

1. Coordination of all phases of construction work with contractors
2. Change order evaluation
3. Approval of payment requests
4. Final inspection and acceptance.

Projects ranged in construction cost from \$500,000 to \$5,500,000 and included a Hilton Inn, three office buildings, mobile home parks and a medical center.

During period have been employed by Latimer, Miller, Sommers and Wallace; Malone Brack & Associates; Brent Bowman & Associates; and Brack & Associates as consultant, production engineer and value engineer making energy studies, retrofitting evaluations, and electrical and mechanical designs for projects.

1976-Present

Have provided construction supervision training seminars for Kansas Chapter of A.G.C., A.G.C. Young Executives of Kentucky, Iowa A.B.C., and contractors in Kansas, Oklahoma, Florida and Illinois. Seminars include study of motivation, leadership, problem solving and planning. Have conducted seminars on productivity for National Electrical Contractors Association at its national training seminar in Phoenix, Arizona; project management at Tampa, Florida; value engineering at Hilton Head, S.C., cost reporting and awareness and project negotiation, Palm Springs, California.

For past several years have conducted a training seminar for Kansas City Chapter of A.I.A. to help members prepare for national licensing test in areas of mechanical, electrical, plumbing and fire protection.

Have been invited to speak to organizations such as fraternities, honoraries, and was keynote speaker at such activities as the Women in Construction Regional Convention in Columbia, Missouri.



## CHARLES L. BURTON

### 1976-Present (Continued)

Have worked as a mechanical engineer consultant and estimator during academic year and full time during summer for Central Mechanical Construction Company, Inc., and for Thermal Comfort Air, Inc., Manhattan, Kansas. Work consists of all forms of mechanical construction estimating, design of negotiated design-build projects, redesign of projects on which the company was successful bidder, value engineering on bid jobs, energy analysis and retrofit design of existing buildings.

### June 1971-1974

M.E.G., Inc.  
Position – Owner, President

Firm performed mechanical, electrical and general construction work.

### June 1967-Jan. 1971

Ridgeview, Inc., Lawrence, Kansas  
Position – Partner

Self-employed as real estate developer. With partner developed and constructed 250-space mobile home park in Lawrence, which was sold in 1971.

### Jan. 1967-June 1969

Burgess, Latimer and Miller, Consulting Engineers, Topeka, Kansas  
Position – Mechanical and Electrical Design Engineer

Was responsible for complete electrical, mechanical and plumbing design and coordination through project completion. Also included working drawings, cost estimating, specifications and coordination with the architect, owner and contractor. Projects worked on as electrical and mechanical engineer included:

- Box manufacturing plant, Lawrence, Kansas
- Hospital, Hiawatha, Kansas
- Dental clinic, Hutchinson, Kansas
- School buildings, Topeka, Kansas
- Multi-story highrises (total electric), Topeka, Kansas
- NASA Research Building (total electric), University of Kansas
- Manhattan Public Library, Manhattan, Kansas
- Office building, Topeka, Kansas
- Fire station, Manhattan, Kansas
- Utility surveys for universities.



## **CHARLES L. BURTON**

May 1965-Jan. 1967

Norris Brothers, Inc., Lawrence, Kansas  
Position – Field Engineer

Was responsible for the following functions of the mechanical contracting area of firm:

1. Estimated cost of commercial work on which firm was bidding, and purchased materials and equipment on successfully bid projects
2. Supervised installation of mechanical equipment (plumbing, heating and cooling, and piping) in commercial buildings ranging in size from small retail stores to multi-story dormitories. Responsibilities included cost control, manpower scheduling, coordination of mechanical work with general construction, and working out design and operating problems with the consulting engineers.

Aug. 1963-May 1965

E. I. DuPont de Nemours & Company, Old Hickory, Tennessee  
Position – Area Engineer, Construction Division

Employed in supervisory capacity as a field engineer assigned to four projects and responsible for design review and liaison, layout, erection and installation planning, manpower forecasting and planning, and cost control. Projects assigned were construction of an office building and warehouse; installation of mechanical equipment, production equipment and piping in a multi-million-dollar production plant; and installation of a dow vaporizer and inert gas producer including boilers, piping and control building. For three months was supervisor of the night shift for the site, which involved coordinating work of approximately 75 men representing various crafts.

Feb. 1963-Aug. 1963

Texaco, Inc.; West Tulsa Plant, Tulsa, Oklahoma  
Position – Assistant Engineer

Was employed in the Plant Engineering office responsible for storage tank and piping design and installation, as well as compiling bills of material and writing orders for assigned projects.



**CHARLES L. BURTON**

**PERSONAL REFERENCES**

Mr. William Latimer; Latimer, Sommers and Associates, P.A.;  
700 SW Harrison; Topeka, KS 66603 (785) 233-3232

Mr. Ronald D. Andersen;  
3441 SW MacVicar; Topeka, KS 66601 (785) 267-3722

Mr. Richard M. Kerschen, President; The Law Company, Inc.;  
345 Riverview; Wichita, KS 67201 (316) 268-0200

Mr. David Shaw, President; Omni Mechanical Services;  
5476 South 108<sup>th</sup> East Avenue; Tulsa, OK 74146 (918) 665-2935

Mr. Brent A. Bowman; Brent Bowman & Associates;  
228 Poyntz Avenue; Manhattan, KS 66502 (785) 776-4912

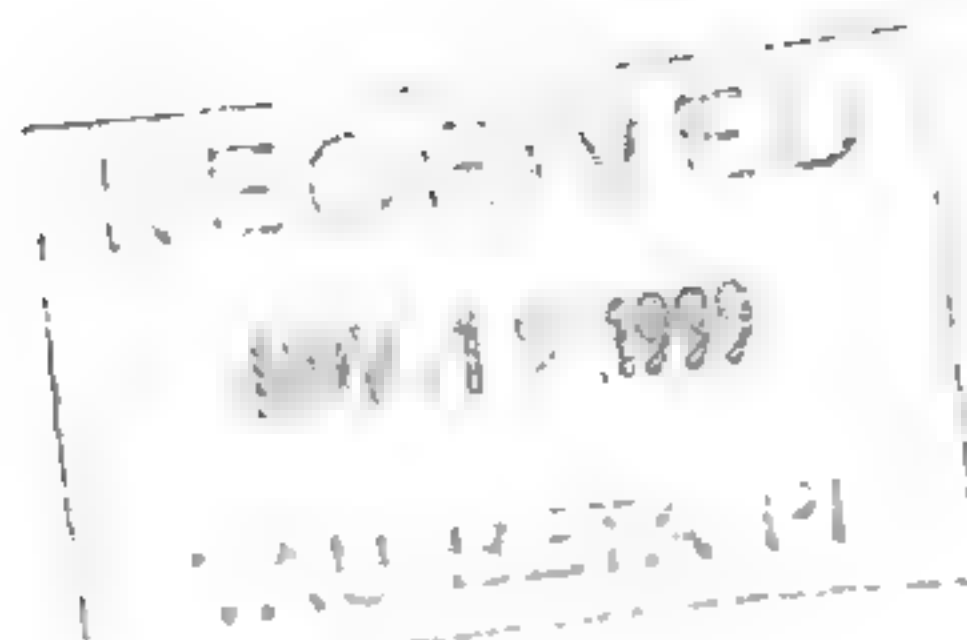
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KS Gamma  
Fall 1999  
Eligibility  
Sec 3



K-State Research and Extension  
Department of Biological  
and Agricultural Engineering  
College of Engineering  
147 Seaton Hall  
Manhattan, KS 66506-2906  
785-532-5580  
Fax. 785-532-5825



October 11, 1999

Tau Beta Pi  
Campus

To whom it may concern:

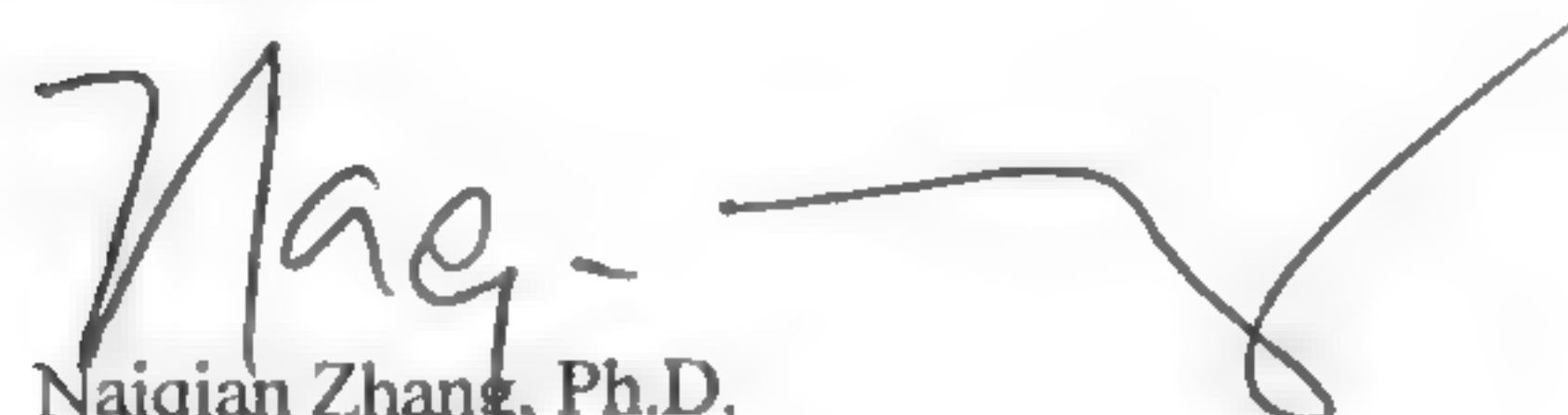
I am the Major Professor of Ms. Ning Wang of the Department of Biological and Agricultural Engineering. I am writing this letter to support her nomination for Tau Beta Pi.

Ning has completed more than 50% of the degree requirements in both course work and dissertation research. She has maintained a near-perfect GPA in her course work. She also has made significant contributions to several research projects on precision agriculture. Within a period of less than two years, she has published two technical papers as the first author, and co-authored other two papers. This achievement clearly has demonstrated her ability of conducting research work. In my opinion, she definitely belongs to the top 5 percent of her class.

Following is a list of the degrees Ning has earned:

1. BS in Electrical Engineering, China University of Agricultural Engineering, 1987.
2. MS in Electrical Engineering, China University of Agricultural Engineering, 1990.
3. MS in Industrial Engineering, Asian Institute of Technology, 1995.

Sincerely,

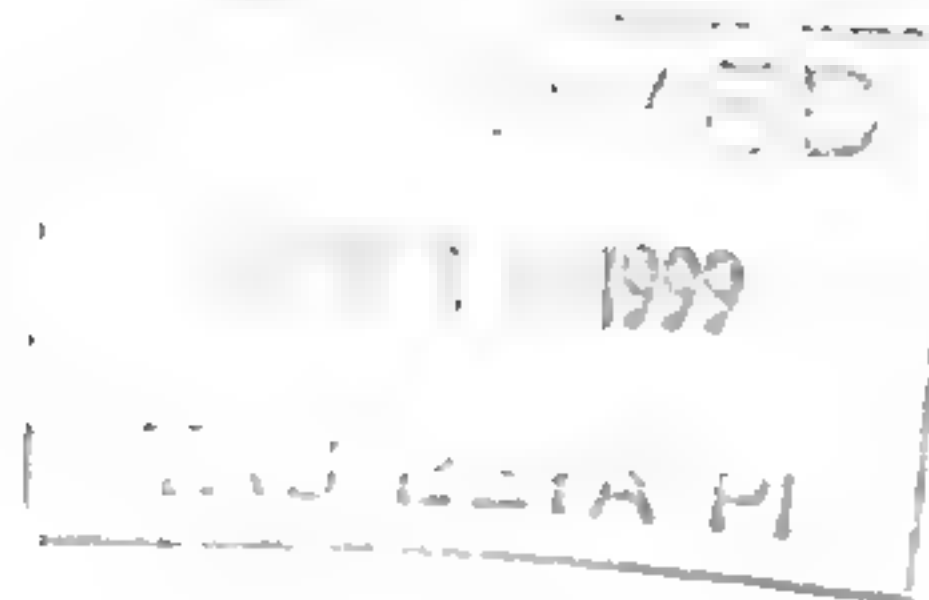
  
Naiqian Zhang, Ph.D.  
Associate Professor

Kansas State University  
Agricultural Experiment  
Station and Cooperative  
Extension Service

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and materials available  
without discrimination on  
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religion, national origin,  
sex, age, or disability

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**Chemical Engineering**

College of Engineering

105 Durland Hall

Manhattan, KS 66506-5102

785-532-5584

Fax: 785-532-7372

E-mail: chemail@cheme.ksu.edu

April 4, 1999

Ms. Jennifer A. Wright  
Tau Beta Pi  
Kansas State University

Dear Ms. Wright:

I am happy to support the nomination of Noel E. Nevers for graduate student membership in Tau Beta Pi. I am Noel's research advisor for her M.S. degree. She is well underway in her research project to study drug delivery from gel-coated catheters. She has acquired sufficient data to prove the undelyuing concept of her thesis. Her coursework is largely complete, and thus I believe she meets the Tau Beta Pi requirement that she should be more than halfway finished with her degree. In terms of GPA, she ranks first among M.S. degree candidates starting their thesis work at K-State in 1998 (3.7/4.0 overall). I am happy to have her in my research group, as she is doing an excellent job overall.

Please let me know if you need any further informtation from me.

Sincerely,

Stevin H. Gehrke  
Professor and Head, Department of Chemical Engineering  
Tom H. Barrett University Faculty Chair

Degrees held :  
University of Dayton - BS in CHE-NRE





K-State Research and Extension  
Department of Biological  
and Agricultural Engineering  
College of Engineering  
147 Seaton Hall  
Manhattan, KS 66506-2906  
785-532-5580  
Fax: 785-532-5825


October 18, 1999

To Whom It May Concern:

I am writing in support of the nomination of Mr. Brian Albert S. Ocfemia to Tau Beta Pi. Brian is currently pursuing a PhD in Engineering degree at Kansas State University (Biological and Agricultural Engineering Department) under my supervision. He has finished 80% of his graduate coursework and has an average of 3.87. He is doing graduate level work in the top 20% of his class.

In 1993, Brian received a B.S. in Applied Physics degree from the University of the Philippines at Los Baños where he graduated *magna cum laude*. He also received a M.S. in Physics degree (1997) from the University of Alabama at Birmingham.

Sincerely,

  
Do Sup Chung  
Professor

Kansas State University  
Agricultural Experiment  
Station and Cooperative  
Extension Service

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**K-State Research and Extension**  
Department of Biological  
and Agricultural Engineering  
College of Engineering  
147 Seaton Hall  
Manhattan, KS 66506-2906  
785-532-5580  
Fax: 785-532-5825

October 18, 1999

To whom it may concern,

I am writing this letter in support of the nomination of Mr. Kim Ocfemia for membership in Tau Beta Pi. Kim has been pursuing a M.S. degree in Biological and Agricultural Engineering since January 1998 under my direct supervision.

Kim has completed more than 80% of his course work and has maintained a GPA of 3.91/4.00. He also has contributed significantly in our research projects on air quality. Prior to coming to KSU, Kim graduated *cum laude* with a B.S. degree in Chemical Engineering from the University of the Philippines at Los Baños, Philippines in 1997.

If you need additional information, please let me know.

Sincerely,

  
Ronaldo G. Maghirang  
Associate Professor and Major Advisor

**Kansas State University  
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Station and Cooperative  
Extension Service**

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sex, age, or disability

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Department of Civil Engineering  
119 Seaton Hall  
Manhattan, KS 66506-2905  
785-532-5862  
Fax: 785-532-7717

October 15, 1999

Brenda Donahey, President  
Kansas Gamma Chapter  
Tau Beta Pi

Dear Ms. Donahey,

It is with great pleasure that I write this letter of support for Wei Jin as he pursues membership in Tau Beta Pi. I can wholeheartedly recommend that Wei receive this honor. I make this recommendation because Wei is an outstanding scholar; he has an aptitude and abilities that allow him to excel in course work and research, and the mental drive and determination that allow him to realize his goals. In addition, Wei is a kind hearted man who is a pleasure to know.

Wei has obtained the following degrees:

1. B.E. in Civil Engineering, 1989, Zhejiang University, P. R. China
2. M.S. in Experimental Fluid Mechanics, 1992, Zhejiang University, P. R. China
3. M.S. in Mechanical Engineering, 1998, Kansas State University

Zhejiang University is very highly regarded, ranked 5th in Engineering for Universities in China.

Wei has been working with me as a graduate research assistant for the last 15 months; I am the primary academic advisor for Wei as he works towards a Ph.D. Wei has completed 51 credits of course work at Kansas State University with a cumulative GPA of 3.78; 60 credit hours of course work are required for a Ph. D. degree. Wei has consistently gotten the best grades of all students in graduate level courses I have taught (CE 854 and CE 801). I have been told by two other faculty, one in Civil Engineering and one in Agronomy, that Wei is the best graduate student they have seen in Civil Engineering in their entire academic career. My view of Wei is in accord with theirs; I believe that Wei is the best graduate student in our department.

I would be happy to visit with you if you have any reservations about admitting Wei for membership to Tau Beta Pi. Wei is preparing himself for life as an academic researcher and educator, and I believe that membership in Tau Beta Pi will serve him well to achieve his dreams.

Sincerely,

A handwritten signature in blue ink, appearing to read "David R. Steward", written over a light blue horizontal line.

David R. Steward, Assistant Professor and Advisor





Department of Electrical  
and Computer Engineering  
261 Rathbone Hall  
Manhattan, KS 66506-5204  
785-532-5600

August 30, 1999

Brenda R. Donahey  
President, Kansas Gamma Chapter  
Tau Beta Pi  
CAMPUS

Dear Brenda:

Mr. Wael R.A. Ibrahim is a full-time Ph.D. student in the Department of Electrical and Computer Engineering. He has taken nine of the 10 courses required as partial fulfillment towards the Ph.D. degree. His accumulated GPA is 4.0; he is top graduate student in the department.

Mr. Ibrahim has received the B.Sc. degree in Electrical Engineering from Cairo University, Egypt (1989) and the M.Sc. degree from Zagazig University, Egypt (1994). Please let me know if you need any further information.

Kindest regards,

Medhat M. Morcos

Medhat M. Morcos, Ph.D.  
Professor  
Telephone: (785) 532-4678  
FAX: (785) 532-1188  
E-mail: morcos@ksu.edu

MMM/js





K-State Research and Extension  
Department of Biological  
and Agricultural Engineering  
College of Engineering  
147 Seaton Hall  
Manhattan, KS 66506-2906  
785-532-5580  
Fax: 785-532-5825

## MEMORANDUM

Date: 10/7/99

To: Tau Beta Pi Nominating Committee

From: Kyle R. Mankin *Kyle R. Mankin*

Subject: Qiang He nomination

I wish to nominate Qiang He for membership in Tau Beta Pi. Qiang has an outstanding record of academic performance and currently maintains a 4.00 GPA based on 23 credits. His committee has approved his program of study for coursework as well as his M.S. research topic and proposal (Performance Evaluation of Meso-scale Constructed Wetland for Residential Wastewater Treatment). In his second semester of research and study, he presented his first paper at regional professional conference. In his first year at K-State, I truly have been impressed with his ability to conduct independent scholarly work, and will recommend that he pursue doctoral study.

Mr. He received his undergraduate degree in Biochemical Engineering from East China University of Science and Technology, July 1993, with a GPA of 87/100 (where 85 or above = Excellent). H

Qiang is an exceptional student with a promising career ahead. He will make an excellent addition to the ranks of Tau Beta Pi members.

Kansas State University  
Agricultural Experiment  
Station and Cooperative  
Extension Service

All educational programs  
and materials available  
without discrimination on  
the basis of race, color,  
religion, national origin,  
sex, age, or disability

*"Knowledge  
for Life"*



From: Self <Cspillma.Staff.BAE.ENG.G.KSU>  
To: Brenda Donahey <brd0430@ksu.edu>  
Subject: Melchor Pasikatan - Tau Beta Pi Application  
Date sent: Fri, 15 Oct 1999 11:30:52 -0500

RECEIVED  
10-15-1999  
11:30:52

Dear Ms. Donahey

This letter is to support Melchor Pasikatan's application to Tau Beta Pi.

Mr. Pasikatan has been my student for approximately three years and I would place him in the top 10% of students working toward the Ph D.

He has completed all course work and will soon be through the prelims.

He has degrees from:

Bachelor of Science in Agricultural Engineering  
University of the Philippines at Los Banos, 1984

Master of Science in Agricultural Engineering  
University of Newcastle-upon-Tyne, U.K., 1988

If there are further questions please do not hesitate to contact me.

Sincerely,

Charles K. Spillman





Department of Mechanical and  
Nuclear Engineering  
302 Rathbone Hall  
Manhattan, KS 66506-5205  
785-532-5610  
Fax: 785-532-7057

September 22, 1999

Brenda Donahey, President  
Kansas Gamma Chapter, Tau Beta Pi

Dear Ms. Donahey

I am writing to support Xuefu Zhang's candidacy for acceptance into the Tau Beta Pi Engineering Honor Society. Mr. Zhang is working with me towards his doctoral degree and is without doubt in the top of his graduate class. He is doing excellent work.

Mr. Zhang's academic credentials include Bachelor of Science and Master of Science degrees from Shanghai Jiao Tong University in 1992 and 1995, respectively.

If you require any further information from me, please so not hesitate to ask. Mr. Zhang is most definitely deserving of the honor of being accepted into Tau Beta Pi.

Sincerely,

Peter J. Gorder

Associate Professor

Mr. Zhang has completed more than 50% of his  
coursework.



Prof. Youqi Wang  
10/15/99

Re: Nomination of Feng Liang for a Tau Beta Pi member

To whom it may concern:

I am delighted to nominate Feng Liang for a Tau Beta Pi member. As his adviser, I can attest to his stellar academic performance.

Mr. Liang has been a Ph.D. student in the Mechanical and Nuclear Engineering Department at Kansas State University since 1997. Previously, he attended two excellent Chinese universities. He received his B.S. degree from the department of Material Science and Engineering at Tongji University and attend a graduate program in the Department of Applied Chemistry at Shanghai Jiao Tong University. His major research interest there was the processing and mechanical behaviors of polymer materials.

Since his arrival at Kansas State, he has been working on a project concerning the manufacture of protein polymer composites. The major aims of this research are to investigate the curing process, to describe mechanical properties and to develop a manufacture process that combines the polymer and both continuous natural fibers and glass fibers. In the past three years, he has investigated protein polymer's curing properties, mechanical properties and binding ability with various fibers.

Mr. Liang is both diligent and creative. He has published five technical papers in a short period. In addition, he won the first student award in the 8<sup>th</sup> annual conference of biodegradable/environmental material society. His graduate level work is in the top fifth.

As per the above reasons, I nominate him for a member of Tau Beta Pi Society.

*Mr. Feng Liang has completed 80% of his course work,  
and is now a Ph.D candidate.*  
Sincerely yours

*Youqi Wang*

Youqi Wang  
Department of MNE



ATTN: DANIEL WILL

**From:** Brenda Donahey <brd0430@ksu.edu>  
**To:** Randy Lee Macke <rmac@ksu.edu>  
**Date:** Friday, October 15, 1999 5:01 PM  
**Subject:** Tau Beta Pi

Can you print?  
 Thanks.

-----Original Message-----

**From:** Charles Spillman <Cspillma@bae.ksu.edu>  
**To:** Brenda Donahey <brd0430@ksu.edu>  
**Date:** Friday, October 15, 1999 4:00 PM  
**Subject:** Roderick Agbisit - Tau Beta Pi Application

>

>Dear Ms. Donahey

>

>This letter is to support Roderick Agbisit's application to Tau Beta  
 >Pi.

>

>Mr. Agbisit has been my student for over two years and I would  
 >place him in the top 20% of students working toward the M. S.  
 >degree.

>

>He has completed all course work and will soon be completing his  
 >thesis.

>

>He has a Bachelor of Science in Agricultural Engineering (cum  
 >laude) 1992 from the College of Engineering and Agro-Industrial  
 >Technology, University of the Philippines at Los Baños.

>

>Please let me know if I can provide additional information.

>

>Sincerely,

>

>Charles K. Spillman

>

>\*\*\*\*\*

>Charles K. Spillman, Professor  
 >Biological and Agricultural Engineering Department  
 >147 Seaton Hall  
 >Kansas State University  
 >Manhattan, KS 66506

>

>Ph: 785 532-2917

>Fax: 785 532-5825

>Email: cks@ksu.edu

>\*\*\*\*\*



**From:** Brenda Donahey <brd0430@ksu.edu>  
**To:** Randy Lee Macke <rmac@ksu.edu>  
**Date:** Friday, October 15, 1999 5:00 PM  
**Subject:** Tau Beta Pi

---

Can you print this?  
Thanks.

-----Original Message-----

**From:** Charles Spillman <Cspillma@bae.ksu.edu>  
**To:** Brenda Donahey <brd0430@ksu.edu>  
**Date:** Friday, October 15, 1999 11:31 AM  
**Subject:** Melchor Pasikatan - Tau Beta Pi Application

><color><param>0100,0100,0100</param><FontFamily><param>Times New Roman</param><smaller><smaller><smaller>Dear Ms. Donahey

>

>

>This letter is to support Melchor Pasikatan's  
a</color>pplication<color><param>0100,0100,0100</param> to Tau Beta Pi.

>

>

>Mr. Pasikatan has been my student for approximately three years and I

>

> would place him in the top 10% of students working toward the Ph D.

>

>

>He has completed all course work and will soon be through the prelims.

>

>

>He has degrees from:

>

>

><paraindent><param>out</param>Bachelor of Science in Agricultural Engineering</paraindent>

>

><paraindent><param>left</param>University of the Philippines at Los Banos, 1984</paraindent>

>

>

><paraindent><param>out</param>Master of Science in Agricultural Engineering</paraindent>

>

> University of Newcastle-upon-Tyne, U.K., 1988

>

>

>If there are further questions please do not hesitate to contact me.

>

>

>Sincerely,

>

>

>Charles K. Spillman



THE TAU BETA PI ASSOCIATION, INCORPORATED  
NATIONAL ENGINEERING HONOR SOCIETY  
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES

FOUNDED



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508 DOUGHERTY ENGINEERING HALL, UTK  
P.O. BOX 2697, KNOXVILLE, TENNESSEE 37901-2697  
423/546-4578, FAX: 423/546-4579, E-MAIL: lbp@lbp.org

JAMES D. FROULA, P.E.  
SECRETARY-TREASURER

ADDENDUM

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

**ELIGIBILITY ACKNOWLEDGEMENT OF CANDIDATES FOR ELECTION --  
THIS IS NOT YOUR OFFICIAL APPROVAL TO HOLD YOUR INITIATION.**

To the President of the  
Kansas Gamma Chapter

Date November 19, 1999

\*\*

\_\_\_\_ Your Report of Eligibility has been received, thank you.

\_\_\_\_ Your undergraduate student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 2.

\*\*

\_\_\_\_ Your graduate-student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 3, as follows: Roderick Agbisit, Qiang He, Wael R. A. Ibrahim, Wei Jin, Feng Liang, Noel E. Nevers, Brian A. S. Ocfemia, Kim Ocfemia, Melchor Pasikatan, Ning Wang, and Xuefu Zhang

\*\*

\_\_\_\_ Your alumnus candidate(s) are judged to be eligible for election to membership under Constitution Article VIII, as follows:

\_\_\_\_ Section 4(a)(1)(2)(3)(4)(5).\*

\_\_\_\_ Section 5(a)(1)(2)(3)(4)(5).\*

Charles L. Burton

\_\_\_\_ Section 6(a)(1)(2)(3)(4)(5).\*

\_\_\_\_  
*\*(All elections under Sections 4, 5, & 6 shall comply with the applicable provisions of Sec. 7.)*

This letter is a judgment of the technical eligibility of these candidates for election to membership. Approval of their initiation will be given as soon as your Report of Election and Catalog Cards have been received.

Please be sure to enter, on the Report of Election, the proper action taken by your chapter on every eligible candidate, in accord with instructions on the report form.

When you send your Report of Election and a Catalog Card for each electee, keys and certificates will be ordered. *Please remind electees that Catalog Cards are permanent records of their membership and that we need full names (no initials), legibly printed by each electee, class years, and proper mailing addresses.*

If you requested electees' materials, including Constitution and Bylaws booklets, etc., and/or Bent castings on the Report of Eligibility, they are being shipped to you today. Creed cards were mailed earlier. If you will need motto slips for your initiates, please let me know when you send your Report of Election; you probably have a supply in your initiation kit.

Approved by \_\_\_\_\_

James D. Froula, Secretary-Treasurer



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JAMES D. FROULA, P.E.  
SECRETARY-TREASURER

~~TENTATIVE~~

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

**ELIGIBILITY ACKNOWLEDGEMENT OF CANDIDATES FOR ELECTION --**  
**THIS IS NOT YOUR OFFICIAL APPROVAL TO HOLD YOUR INITIATION.**

To the President of the  
Kansas Gamma

Chapter

Date October 4, 1999

12/22/99

\*\* Your Report of Eligibility has been received, thank you.

\*\* Your undergraduate student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 2.

Your graduate-student candidate(s) are judged to be eligible for election to membership under Constitution Art. VIII, Sec. 3, as follows: Brett Randall was listed as a member on your addendum. According to our records, he was elected and postponed Fall 1998. Therefore, he may attend your meetings, etc. but cannot participate in elections, etc. If you have questions, please call.

Your alumnus candidate(s) are judged to be eligible for election to membership under Constitution Article VIII, as follows:

Per our conversation, members weren't included in your report. You Section 4(a)(1)(2)(3)(4)(5). \*  
are going to either send an addendum with the change in number with all

current members who are eligible or bring it to the Convention. Section 5(a)(1)(2)(3)(4)(5). \*

Thanks, Rebecca 10/22/99 Members received Section 6(a)(b). \*

Thanks, Rebecca

\*(All elections under Sections 4, 5, & 6 shall comply with the applicable provisions of Sec. 7.)

This letter is a judgment of the technical eligibility of these candidates for election to membership. Approval of their initiation will be given as soon as your Report of Election and Catalog Cards have been received.

Please be sure to enter, on the Report of Election, the proper action taken by your chapter on every eligible candidate, in accord with instructions on the report form.

When you send your Report of Election and a Catalog Card for each electee, keys and certificates will be ordered. Please remind electees that Catalog Cards are permanent records of their membership and that we need full names (no initials), legibly printed by each electee, class years, and proper mailing addresses.

If you requested electees' materials, including Constitution and Bylaws booklets, etc., and/or Bent castings on the Report of Eligibility, they are being shipped to you today. Creed cards were mailed earlier. If you will need motto slips for your initiates, please let me know when you send your Report of Election; you probably have a supply in your initiation kit.

Approved by

James D. Froula, P.E.

James D. Froula, Secretary-Treasurer



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423/546-4578, FAX: 423/546-4579, E-MAIL: lbp@tbp.org

**PLEASE REMEMBER**  
Initiation fee of \$30 per initiate  
is due within 10 days of your  
initiation.

JAMES D. FROULA, P.E.  
SECRETARY-TREASURER

ROGER E. HAWKS  
ASSISTANT SECRETARY-TREASURER

**OFFICIAL APPROVAL TO HOLD YOUR INITIATION**

To the President of the Kansas Gamma Chapter: Date December 1, 1999

\*\* Your Report(s) of Election and Catalog Card(s) for eligible students have been received and your election of 30 undergraduate(s) is hereby approved, under Constitution Article VIII, Section 2.

\*\* Your Report(s) of Election and Catalog Card(s) for graduate-student, alumnus, and eminent engineer candidate(s) have been received and their election is hereby approved under Constitution Article VIII, as follows:

Nevers, Liang, Pasikatans,, Wang, Jin, K. Ocfemia, B. Ocfemia, Zhang, He, and Ibrahim

VERBAL OFFICIAL INITIATION APPROVAL

ON: 12/2/99

TO: Nathan Stockman

BY: Rebecca

Sec. 3

Sec. 4

Sec. 5

Sec. 6

Burton

\*\* These 41 electee(s) are approved for initiation on December 5, 1999

(NOTE: You may initiate postponed electees if and only if they are eligible for membership at the time of their initiation unless your Advisory Board approved and documented the postponements.)

\*\* We need Catalog Card(s) for the following electee(s): Don't forget to send a catalog card for Charles Burton -- we ordered his key and certificate from his resume.

41 Keys have been ordered for delivery as soon as possible. (They usually require 3-4 weeks for delivery.)

41 Certificates have been ordered for delivery as soon as possible.

If you have questions or problems, please call Lanita or Rebecca.

Approved by James D. Froula, Secretary-Treasurer

PLEASE BE SURE TO ACCOUNT FOR ALL ELECTEES, INCLUDING ALUMNI AND ANY FROM YOUR POSTPONED INITIATIONS LIST, ON YOUR REPORT OF FINAL ACTION! THE REPORT OF FINAL ACTION SHOULD BE SENT IMMEDIATELY AFTER YOUR INITIATION, WITH A PHOTOCOPY OF YOUR ROLL BOOK SIGNATURES. ALSO, DOCUMENT ANY APPROVED POSTPONEMENTS.



**THE TAU BETA PI ASSOCIATION  
POSTPONED & FINANCIAL REFUSAL ELECTEES**

**RECEIVED**  
**DEC 14 1999**  
**TAU BETA PI**

Chapter 288 Kansas Gamma

Date Fall 1999

The persons listed below were elected by your chapter during past initiation seasons as noted. They have refused membership for financial reasons (Constitution Article VIII, Section 10) or have simply missed attending a formal initiation. Unless their election is to be cancelled, at the option of your chapter, the following three options apply:

- A) Persons whose names appear on this list and who remain eligible for membership may be initiated at the next regular initiation without re-election. Such electees who graduate may be initiated without re-election within five years from the date of election.
- B) Persons listed who become academically ineligible *and* whose postponements have been *approved and documented* by the Advisory Board may be initiated at the next regular initiation.
- C) Persons listed who become ineligible and whose postponements have *not* been approved by the Advisory Board must become eligible again and be re-elected during a subsequent term in order to be initiated.

If it is inconvenient for them to return to your chapter for initiation, arrangements can be made through the National Headquarters for their initiation by chapters near their homes.

Please indicate the action to be taken on each electee listed; i.e., **To be initiated on** \_\_\_\_\_ (date); Election cancelled by the chapter; Continue financial refusal or postponed status; etc.

**RETURN THIS SHEET WITH YOUR REPORT OF FINAL ACTION**

| Name & Class          | Status / Date Elected | Advisory<br>Board Approval | Re: Key     | Action by Chapter    |
|-----------------------|-----------------------|----------------------------|-------------|----------------------|
| Brett A. Randall, '00 | Post - Fall 1998      | APPROVED                   | Chapter has | <i>Init 12/15/99</i> |
|                       |                       |                            |             |                      |
|                       |                       |                            |             |                      |
|                       |                       |                            |             |                      |